

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

|                        |                                                                                                                                     |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Product form           | : Substance                                                                                                                         |
| Name                   | : Melamine                                                                                                                          |
| Trade name             | : MelaminebyOCITM GPH<br>MelaminebyOCITM SLP<br>Melafine®<br>MelaminebyOCITM Novo GPH<br>MelaminebyOCITM Novo SLP<br>Melafine® Novo |
| IUPAC name             | : 1,3,5-Triazine-2,4,6-triamine                                                                                                     |
| EC-No.                 | : 203-615-4                                                                                                                         |
| CAS-No.                | : 108-78-1                                                                                                                          |
| REACH registration No. | : 01-2119485947-16-0000                                                                                                             |
| Type of product        | : Solid                                                                                                                             |
| Formula                | : C <sub>3</sub> H <sub>6</sub> N <sub>6</sub>                                                                                      |
| Synonyms               | : Cyanuramide; Cyanurotriamide; 2,4,6-Triamino-s-triazine                                                                           |

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.2.1. Relevant identified uses

|                              |                                                                                                                                                                                          |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Use of the substance/mixture | : Industrial use<br>White crystalline powder, used in high performance products like wood-based panels, laminates, coatings, molding powders, concrete plasticizers and flame retardants |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 1.2.2. Uses advised against

|                     |                                     |
|---------------------|-------------------------------------|
| Restrictions on use | : Addition to food or feed products |
|---------------------|-------------------------------------|

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

OCI Nitrogen B.V.  
Poststraat 1  
6135 KR Sittard  
The Netherlands  
T +31 (0) 46 7020205  
[info.melamine@oci-global.com](mailto:info.melamine@oci-global.com), [www.oci-global.com](http://www.oci-global.com)

### 1.4. Emergency telephone number

|                  |                                                                                     |
|------------------|-------------------------------------------------------------------------------------|
| Emergency number | : Alert & Care Centre Chemelot (Geleen, The Netherlands): +31 (0) 46 4765555 (24/7) |
|------------------|-------------------------------------------------------------------------------------|

| Country/Area | Organisation/Company                                     | Address                                  | Emergency number                                                                                       | Comment |
|--------------|----------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------------------------------------------|---------|
| Ireland      | National Poisons Information Centre<br>Beaumont Hospital | PO Box 1297<br>Beaumont Road<br>9 Dublin | +353 1 809 2566<br>(Healthcare professionals-<br>24/7)<br>+353 1 809 2166 (public,<br>8am - 10pm, 7/7) |         |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

|                                                                |       |
|----------------------------------------------------------------|-------|
| Carcinogenicity, Category 2                                    | H351  |
| Reproductive toxicity, Category 2                              | H361f |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373  |
| Full text of H- and EUH-statements: see section 16             |       |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Adverse physicochemical, human health and environmental effects

No additional information available

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS08

Signal word (CLP)

: Warning

Hazard statements (CLP)

: H351 - Suspected of causing cancer.  
H361f - Suspected of damaging fertility.  
H373 - May cause damage to organs (urinary tract) through prolonged or repeated exposure.

Precautionary statements (CLP)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P280 - Wear protective gloves, protective clothing/eye protection/face protection.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

## 2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

Contains no PBT and/or vPvB substances  $\geq 0.1\%$  assessed in accordance with REACH Annex XIII

The substance is not included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

| Name                                                                                    | Product identifier                                                            | Conc.<br>(% w/w) | Classification according to<br>Regulation (EC) No. 1272/2008<br>[CLP] |
|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|------------------|-----------------------------------------------------------------------|
| 1,3,5-Triazine-2,4,6-triamine<br>substance listed on REACH Candidate List<br>(Melamine) | CAS-No.: 108-78-1<br>EC-No.: 203-615-4<br>REACH-no: 01-2119485947-<br>16-0000 | 100              | Carc. 2, H351<br>Repr. 2, H361f<br>STOT RE 2, H373                    |

Full text of H- and EUH-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general

: IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation

: Remove person to fresh air and keep comfortable for breathing. If breathing stops, give artificial respiration. Get medical attention if symptoms occur.

First-aid measures after skin contact

: Wash skin with plenty of water and soap. Remove all contaminated clothing and footwear.

First-aid measures after eye contact

: Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.

First-aid measures after ingestion

: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms occur.

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 4.2. Most important symptoms and effects, both acute and delayed

|                                    |                                                                                                                                  |
|------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
| Symptoms/effects after inhalation  | : Dust from this product may cause irritation to the respiratory tract.                                                          |
| Symptoms/effects after eye contact | : Dust from this product may cause eye irritation.                                                                               |
| Chronic symptoms                   | : May damage fertility. Suspected carcinogen. May cause damage to organs (urinary tract) through prolonged or repeated exposure. |

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically. Hazardous decomposition products in case of fire. Symptoms may be delayed. Consult an expert.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

|                              |                                  |
|------------------------------|----------------------------------|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
|------------------------------|----------------------------------|

### 5.2. Special hazards arising from the substance or mixture

|                                                  |                                                                                                                                                                 |
|--------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire hazard                                      | : The product is not flammable.                                                                                                                                 |
| Hazardous decomposition products in case of fire | : Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Amines, Nitrogen oxides, Ammonia, Hydrogen cyanide > 600°C / 1112°F. |

### 5.3. Advice for firefighters

|                                |                                                                                                                                          |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

|                      |                                                                                                                                                                          |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Emergency procedures | : Ventilate spillage area. Evacuate unnecessary personnel. Do not breathe dust. Do not touch or walk on the spilled product. Avoid contact with skin, eyes and clothing. |
|----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### 6.1.2. For emergency responders

|                      |                                                                                                                                                             |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------|

### 6.2. Environmental precautions

Avoid release to the environment. Do not allow to enter drains or water courses. Avoid sub-soil penetration. Advise local authorities if considered necessary.

### 6.3. Methods and material for containment and cleaning up

|                         |                                                                                                                                                                           |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Methods for cleaning up | : Mechanically recover the product. Avoid dust formation. Keep in suitable, closed containers for disposal. Notify authorities if product enters sewers or public waters. |
| Other information       | : Dispose of waste product or used containers according to local regulations. Dispose of materials or solid residues at an authorized site.                               |

### 6.4. Reference to other sections

See sections 1, 8 and 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

|                               |                                                                                                                                                                                                                                                                                                                           |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Precautions for safe handling | : Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Ensure good ventilation of the work station. Avoid dust formation. Do not breathe dust. In case of insufficient ventilation, wear suitable respiratory equipment. |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in accordance with local, regional, national or international regulation. Store in dry, well-ventilated area. Store locked up.

Incompatible materials : Strong oxidizing agents.

Heat and ignition sources : Keep out of direct sunlight.

Storage area : (1) Do not stack big bags > 1000 kg. Do not stack more than two bulk bags <=1000 kg on top of each other in connection with the risk of ripping. (2) 'MelaminebyOCI SLP' may not be stacked.

### 7.3. Specific end use(s)

For the detailed identified uses of the product see appendix of the safety data sheet.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1 National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

#### 8.1.4. DNEL and PNEC

| 1,3,5-Triazine-2,4,6-triamine (108-78-1) |                           |
|------------------------------------------|---------------------------|
| DNEL/DMEL (Workers)                      |                           |
| Acute - systemic effects, inhalation     | 82.3 mg/m <sup>3</sup>    |
| Long-term - systemic effects, dermal     | 11.8 mg/kg bw/day         |
| Long-term - systemic effects, inhalation | 8.3 mg/m <sup>3</sup>     |
| DNEL/DMEL (General population)           |                           |
| Long-term - systemic effects, oral       | 0.42 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 1.5 mg/m <sup>3</sup>     |
| Long-term - systemic effects, dermal     | 4.2 mg/kg bodyweight/day  |
| PNEC (Water)                             |                           |
| PNEC aqua (freshwater)                   | 0.51 mg/l                 |
| PNEC aqua (marine water)                 | 0.051 mg/l                |
| PNEC aqua (intermittent, freshwater)     | 2 mg/l                    |
| PNEC (Sediment)                          |                           |
| PNEC sediment (freshwater)               | 13.06 mg/kg dwt           |
| PNEC sediment (marine water)             | 1.306 mg/kg dwt           |
| PNEC (Soil)                              |                           |
| PNEC soil                                | 2.312 mg/kg dwt           |
| PNEC (Oral)                              |                           |
| PNEC oral (secondary poisoning)          | Bioaccumulation unlikely  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

#### PNEC (STP)

|                             |          |
|-----------------------------|----------|
| PNEC sewage treatment plant | 100 mg/l |
|-----------------------------|----------|

#### 8.1.5. Control banding

No additional information available

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

##### Appropriate engineering controls:

Ensure good ventilation of the work station. Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. See annex for more detailed information.

#### 8.2.2. Personal protection equipment

##### Personal protective equipment:

When this substance/product is used in a mixture consult your industrial hygienist to adjust the personal protective equipment to the (hazard) properties of the mixture.

##### Personal protective equipment symbol(s):



##### 8.2.2.1. Eye and face protection

##### Eye protection:

Wear eye protection

#### Eye protection

| Type                             | Use  | Characteristics | Standard       |
|----------------------------------|------|-----------------|----------------|
| Safety glasses with side shields | Dust |                 | EN ISO 16321-1 |

##### 8.2.2.2. Skin protection

##### Skin and body protection:

Wear suitable protective clothing

#### Skin and body protection

| Type                             | Standard     |
|----------------------------------|--------------|
| Long sleeved protective clothing | EN ISO 13982 |

##### Hand protection:

Chemically resistant protective gloves. Efficiency of at least: 80%. To increase glove efficiency additional good practice is required, e.g. provision of training or management supervision.

#### Hand protection

| Type              | Material                                                             | Permeation        | Thickness (mm) | Penetration | Standard |
|-------------------|----------------------------------------------------------------------|-------------------|----------------|-------------|----------|
| Protective gloves | Chloroprene rubber (CR),<br>Butyl rubber,<br>Polyvinylchloride (PVC) | 6 (> 480 minutes) | 0.5            |             | EN 374   |
| Protective gloves | Nitrile rubber (NBR)                                                 | 6 (> 480 minutes) | 0.35           |             | EN 374   |
| Protective gloves | Fluoroelastomer (FKM)                                                | 6 (> 480 minutes) | 0.4            |             | EN 374   |

##### 8.2.2.3. Respiratory protection

##### Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Respiratory protection

| Device    | Filter type | Condition       | Standard |
|-----------|-------------|-----------------|----------|
| Dust mask | Type FFP2   | Dust protection | EN 140   |

#### 8.2.2.4. Thermal hazards

No additional information available

#### 8.2.3. Environmental exposure controls

##### Environmental exposure controls:

Avoid release to the environment. See annex for more detailed information.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                                                 |                                                      |
|-------------------------------------------------|------------------------------------------------------|
| Physical state                                  | : Solid                                              |
| Colour                                          | : White                                              |
| Appearance                                      | : Crystalline powder                                 |
| Molecular mass                                  | : 126.12 g/mol                                       |
| Odour                                           | : Odourless, Ammoniacal slight                       |
| Odour threshold                                 | : Not available                                      |
| Melting point                                   | : 354 °C (with vaporization)                         |
| Freezing point                                  | : Not applicable                                     |
| Boiling point                                   | : > 280 °C Decomposes                                |
| Flammability (solid, gas)                       | : Not flammable                                      |
| Explosive properties                            | : Not explosive                                      |
| Oxidising properties                            | : Non oxidizing                                      |
| Lower explosive limit (LEL)                     | : Not applicable                                     |
| Upper explosive limit (UEL)                     | : Not applicable                                     |
| Flash point                                     | : > 280 °C (closed cup)                              |
| Auto-ignition temperature                       | : > 500 °C                                           |
| Decomposition temperature                       | : > 280 °C                                           |
| pH                                              | : 7.8 – 9.5 (10% aqueous suspension)                 |
| pH solution                                     | : Not available                                      |
| Viscosity, kinematic                            | : Not applicable                                     |
| Solubility                                      | : Slightly soluble.<br>Water: 0.348 g/100ml (@ 20°C) |
| Partition coefficient n-octanol/water (Log Kow) | : -1.22 (@ 20°C)                                     |
| Vapour pressure                                 | : < 0.02 kPa (@ 20°C / 68°F)                         |
| Density                                         | : 1.57 g/cm <sup>3</sup>                             |
| Relative density                                | : 1.57 (@ 20°C / 68°F)                               |
| Relative vapour density at 20°C                 | : 4.34 (air = 1)                                     |
| Particle size                                   | : Not available                                      |
| Particle size distribution                      | : Available on request                               |

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

Other properties : Ignition temperature: ≥ 658 °C

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Keep away from heat. Keep away from any flames or sparking source.

### 10.5. Incompatible materials

Oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Thermal decomposition can lead to the release of irritating gases and vapours. Thermal decomposition generates: Carbon monoxide, Carbon dioxide, Nitrogen oxides, Amines, Ammonia, Hydrogen cyanide > 600°C / 1112°F.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                                   |                                                            |
|-----------------------------------|------------------------------------------------------------|
| LD50 oral rat                     | 3161 mg/kg bodyweight                                      |
| LC50 Inhalation - Rat             | > 5.19 mg/l/4h (OECD 403 method)                           |
| Skin corrosion/irritation         | : Not classified<br>pH: 7.8 – 9.5 (10% aqueous suspension) |
| Serious eye damage/irritation     | : Not classified<br>pH: 7.8 – 9.5 (10% aqueous suspension) |
| Respiratory or skin sensitisation | : Not classified                                           |
| Germ cell mutagenicity            | : Not classified                                           |
| Carcinogenicity                   | : Suspected of causing cancer.                             |

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                           |                                      |
|---------------------------|--------------------------------------|
| LOAEL, Chronic, oral, rat | 126 mg/kg bw/day                     |
| IARC group                | 2B - Possibly carcinogenic to humans |
| Reproductive toxicity     | : Suspected of damaging fertility.   |

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                           |                                                                                      |
|---------------------------|--------------------------------------------------------------------------------------|
| NOAEL (animal/male, F0/P) | 268 mg/kg bodyweight Fertility                                                       |
| NOAEL (animal/male, F1)   | 89 mg/kg bodyweight Fertility                                                        |
| Target organ(s)           | testis, Sperm                                                                        |
| STOT-single exposure      | : Not classified                                                                     |
| STOT-repeated exposure    | : May cause damage to organs (urinary tract) through prolonged or repeated exposure. |

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                            |                         |
|----------------------------|-------------------------|
| NOAEL (oral, rat, 90 days) | 72 mg/kg bodyweight/day |
| Aspiration hazard          | : Not classified        |

#### Melamine (108-78-1)

|                      |                |
|----------------------|----------------|
| Viscosity, kinematic | Not applicable |
|----------------------|----------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 11.2. Information on other hazards

#### 11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties : Contains no substances identified as having endocrine disrupting properties

#### 11.2.2. Other information

No additional information available

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                        |                                                                 |
|------------------------|-----------------------------------------------------------------|
| LC50 fish 1            | > 3000 mg/l <i>Oncorhynchus mykiss</i>                          |
| EC50 Daphnia 1         | 200 mg/l <i>Daphnia magna</i>                                   |
| EC50 96h - Algae [1]   | 325 mg/l <i>Pseudokirchneriella subcapitata</i>                 |
| NOEC chronic fish      | ≥ 5.1 mg/l <i>Pimephales promelas</i> (36d), OECD Guideline 210 |
| NOEC chronic crustacea | ≥ 11 mg/l (21d) <i>Daphnia magna</i>                            |
| NOEC chronic algae     | 98 mg/l Species: <i>Pseudokirchneriella subcapitata</i>         |
| NOEC, microorganisms   | 2000 mg/l                                                       |

### 12.2. Persistence and degradability

#### Melamine (108-78-1)

|                               |                        |
|-------------------------------|------------------------|
| Persistence and degradability | Not rapidly degradable |
|-------------------------------|------------------------|

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                               |                                                          |
|-------------------------------|----------------------------------------------------------|
| Persistence and degradability | Not readily biodegradable, Not inherently biodegradable. |
|-------------------------------|----------------------------------------------------------|

### 12.3. Bioaccumulative potential

#### Melamine (108-78-1)

|                                                 |                |
|-------------------------------------------------|----------------|
| Partition coefficient n-octanol/water (Log Kow) | -1.22 (@ 20°C) |
|-------------------------------------------------|----------------|

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                           |                           |
|---------------------------|---------------------------|
| BCF fish 1                | < 3.8 l/kg                |
| Bioaccumulative potential | Bioaccumulation unlikely. |

### 12.4. Mobility in soil

#### 1,3,5-Triazine-2,4,6-triamine (108-78-1)

|                                                            |     |
|------------------------------------------------------------|-----|
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 2.3 |
|------------------------------------------------------------|-----|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12.5. Results of PBT and vPvB assessment

#### Melamine (108-78-1)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Endocrine disrupting properties

No additional information available

### 12.7. Other adverse effects

No additional information available

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

|                                            |                                                                                                                                                                   |
|--------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Regional waste regulation                  | : Dispose in a safe manner in accordance with local/national regulations.                                                                                         |
| Waste treatment methods                    | : Dispose of contents/container in accordance with licensed collector's sorting instructions.                                                                     |
| Product/Packaging disposal recommendations | : Recycling is preferred to disposal or incineration. Do not re-use empty containers without proper cleaning or reconditioning. Avoid release to the environment. |

## SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

| ADR                                     | IMDG          | IATA          | ADN           | RID           |
|-----------------------------------------|---------------|---------------|---------------|---------------|
| <b>14.1. UN number or ID number</b>     |               |               |               |               |
| Not regulated for transport             |               |               |               |               |
| <b>14.2. UN proper shipping name</b>    |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.3. Transport hazard class(es)</b> |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.4. Packing group</b>              |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| <b>14.5. Environmental hazards</b>      |               |               |               |               |
| Not regulated                           | Not regulated | Not regulated | Not regulated | Not regulated |
| No supplementary information available  |               |               |               |               |

### 14.6. Special precautions for user

#### Overland transport

Not regulated

#### Transport by sea

Not regulated

#### Air transport

Not regulated

#### Inland waterway transport

Not regulated

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Rail transport

Not regulated

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

Other information, restriction and prohibition regulations : For pregnant/breastfeeding women (92/85/EC): National employment prohibitions and restrictions have to be observed. For young people, <18 years (94/33/EC): National employment prohibitions and restrictions have to be observed.

#### REACH Annex XVII (Restriction List)

Not listed on REACH Annex XVII

#### REACH Annex XIV (Authorisation List)

Not listed on REACH Annex XIV (Authorisation List)

#### REACH Candidate List (SVHC)

Listed on the REACH Candidate List: Melamine

Contains substance(s) listed on the REACH Candidate List in concentrations  $\geq 0.1\%$  or SCL: Melamine (EC 203-615-4, CAS 108-78-1)

#### PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

#### POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

#### Ozone Regulation (2024/590)

Not listed on the Ozone Depletion list (Regulation EU 2024/590)

#### Council Regulation (EC) for the control of dual-use items

Contains no substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items

#### Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

#### Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

A chemical safety assessment has been carried out

## SECTION 16: Other information

### Indication of changes:

Trade name. Details of the supplier of the safety data sheet.

### Abbreviations and acronyms:

|      |                                                                                     |
|------|-------------------------------------------------------------------------------------|
| PBT  | Persistent Bioaccumulative Toxic                                                    |
| vPvB | Very Persistent and Very Bioaccumulative                                            |
| ADR  | European Agreement concerning the International Carriage of Dangerous Goods by Road |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Abbreviations and acronyms: |                                                                                                   |
|-----------------------------|---------------------------------------------------------------------------------------------------|
| RID                         | Regulations concerning the International Carriage of Dangerous Goods by Rail                      |
| ADN                         | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways   |
| ICAO                        | International Civil Aviation Organization                                                         |
| REACH                       | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| DNEL                        | Derived-No Effect Level                                                                           |
| PNEC                        | Predicted No-Effect Concentration                                                                 |
| EC50                        | Median effective concentration                                                                    |
| NOEC                        | No-Observed Effect Concentration                                                                  |
| BCF                         | Bioconcentration factor                                                                           |
| IMDG                        | International Maritime Dangerous Goods                                                            |
| IATA                        | International Air Transport Association                                                           |
| DMEL                        | Derived Minimal Effect level                                                                      |
| CLP                         | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008                       |
| IARC                        | International Agency for Research on Cancer                                                       |
| EC-No.                      | European Community number                                                                         |
| EN                          | European Standard                                                                                 |
| LC50                        | Median lethal concentration                                                                       |
| LD50                        | Median lethal dose                                                                                |
| LOAEL                       | Lowest Observed Adverse Effect Level                                                              |
| OECD                        | Organisation for Economic Co-operation and Development                                            |
| STP                         | Sewage treatment plant                                                                            |
| CAS-No.                     | Chemical Abstract Service number                                                                  |
| NOAEL                       | No-Observed Adverse Effect Level                                                                  |
| ATE                         | Acute Toxicity Estimate                                                                           |
| BLV                         | Biological limit value                                                                            |
| BOD                         | Biochemical oxygen demand (BOD)                                                                   |
| COD                         | Chemical oxygen demand (COD)                                                                      |
| NOAEC                       | No-Observed Adverse Effect Concentration                                                          |
| OEL                         | Occupational Exposure Limit                                                                       |
| SDS                         | Safety Data Sheet                                                                                 |
| ThOD                        | Theoretical oxygen demand (ThOD)                                                                  |
| TLM                         | Median Tolerance Limit                                                                            |
| VOC                         | Volatile Organic Compounds                                                                        |
| N.O.S.                      | Not Otherwise Specified                                                                           |
| ED                          | Endocrine disruptor                                                                               |

Training advice

: Training staff on good practice. Ensure staff are informed of and trained on the nature of exposure and basic actions to minimise exposure.

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Full text of H- and EUH-statements:

|           |                                                                                    |
|-----------|------------------------------------------------------------------------------------|
| Carc. 2   | Carcinogenicity, Category 2                                                        |
| Repr. 2   | Reproductive toxicity, Category 2                                                  |
| STOT RE 2 | Specific target organ toxicity – Repeated exposure, Category 2                     |
| H351      | Suspected of causing cancer.                                                       |
| H361f     | Suspected of damaging fertility.                                                   |
| H373      | May cause damage to organs (urinary tract) through prolonged or repeated exposure. |

Safety Data Sheet applicable for regions : IE - Ireland

SDS EU (REACH Annex II) - RH

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Annex to the safety data sheet

| Lead substance                | Identified Uses                                                                                                                 | Es N° | Short title | Page |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-------|-------------|------|
| 1,3,5-Triazine-2,4,6-triamine | ES 1 Manufacture of substances                                                                                                  | 1     |             | 13   |
| 1,3,5-Triazine-2,4,6-triamine | ES 2 Formulation or re-packing                                                                                                  | 2     |             | 22   |
| 1,3,5-Triazine-2,4,6-triamine | ES 3 Use at industrial sites - Use as monomer (intermediate) for melamine based resins production                               | 3     |             | 41   |
| 1,3,5-Triazine-2,4,6-triamine | ES 4 Use at industrial sites - Use as monomer (intermediate) in melamine based resins before curing                             | 4     |             | 58   |
| 1,3,5-Triazine-2,4,6-triamine | ES 5 Use at industrial sites - Use as intermediate for the production of other substances e.g. melamine salt (reacted melamine) | 5     |             | 69   |
| 1,3,5-Triazine-2,4,6-triamine | ES 6 Use at industrial sites - Use as additive in foams                                                                         | 6     |             | 81   |
| 1,3,5-Triazine-2,4,6-triamine | ES 7 Use at industrial sites - Use as additive in intumescent coatings                                                          | 7     |             | 94   |
| 1,3,5-Triazine-2,4,6-triamine | ES 8 Widespread use by professional workers - Use as additive in intumescent coatings                                           | 8     |             | 112  |
| 1,3,5-Triazine-2,4,6-triamine | ES 9 Service life - workers - PU foams - Workers (industrial)                                                                   | 9     |             | 122  |
| 1,3,5-Triazine-2,4,6-triamine | ES 10 Service life - workers - Intumescent coatings - Workers (industrial)                                                      | 10    |             | 126  |
| 1,3,5-Triazine-2,4,6-triamine | ES 11 Service life - workers - Intumescent coatings - Professional Workers                                                      | 11    |             | 130  |
| 1,3,5-Triazine-2,4,6-triamine | ES 12 Service life - consumers - PU foams – Consumers                                                                           | 12    |             | 133  |
| 1,3,5-Triazine-2,4,6-triamine | ES 13 Service life - consumers - Intumescent coating – Consumers                                                                | 13    |             | 136  |

### 1. ES 1 - ES 1 Manufacture of substances

#### 1.1. Title section

##### ES 1 Manufacture of substances

ES Ref.: ES 1  
ES Type: Worker

| Environment | Use descriptors                   |
|-------------|-----------------------------------|
| CS 1        | Manufacture of substances<br>ERC1 |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Worker |                                                                                                                                                      | Use descriptors |
|--------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                 | PROC1           |
| CS 3   | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions | PROC2           |
| CS 4   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                              | PROC8a          |
| CS 5   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                  | PROC8b          |
| CS 6   | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                  | PROC9           |
| CS 7   | Use as laboratory reagent                                                                                                                            | PROC15          |
| CS 8   | Manual maintenance (cleaning and repair) of machinery                                                                                                | PROC28          |

### 1.2. Conditions of use affecting exposure

#### 1.2.1. Control of environmental exposure: Manufacture of substances (ERC1)

|      |                              |
|------|------------------------------|
| ERC1 | Manufacture of the substance |
|------|------------------------------|

#### 1.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|       |                                                                                                                                      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                        |
|---------------------------------------------------------------------------------------|------------------------|
| Respiratory protection                                                                | No. Effectiveness : 0% |
| Protective gloves                                                                     | No. Effectiveness : 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 1.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

PROC2

Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 1.2.4. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

#### 1.2.5. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|-------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 1.2.6. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 1.2.7. Control of worker exposure: Use as laboratory reagent (PROC15)

|        |                           |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                           |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection No. Effectiveness : 0%

Protective gloves No. Effectiveness : 0%

### Other conditions affecting workers exposure

Assumes process temperature up to 40 °C

Indoor use

#### 1.2.8. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

PROC28 Manual maintenance (cleaning and repair) of machinery

### Product (article) characteristics

Physical form of product Solid

Concentration of substance in product ≤ 100 %

Dustiness Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration ≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least: 80 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection No. Effectiveness : 0%

### Other conditions affecting workers exposure

Assumes process temperature up to 40 °C

Indoor use

#### 1.3. Exposure estimation and reference to its source

##### 1.3.1. Environmental release and exposure Manufacture of substances (ERC1)

### Information for contributing exposure scenario

Confidential

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 1.3.2. Worker exposure Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Information for contributing exposure scenario |                    |        |             |
|------------------------------------------------|--------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 0.034 mg/kg bw/day | < 0.01 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.01 mg/m³         | < 0.01 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | < 0.02 |             |
| Inhalation - Acute - systemic effects          | 0.04 mg/m³         | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | < 0.01 |             |

### 1.3.3. Worker exposure Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.37 mg/kg bw/day  | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m³          | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.176 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m³            | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.024 |             |

### 1.3.4. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m³            | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.834 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m³           | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.243 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 1.3.5. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day  | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.352 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

### 1.3.6. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.718 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 1.3.7. Worker exposure Use as laboratory reagent (PROC15)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.34 mg/kg bw/day     | 0.029 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.089 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.024 |             |

### 1.3.8. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario |  |  |  |
|------------------------------------------------|--|--|--|
| Exposure estimate: PROC 8a, TRA Workers v3.1   |  |  |  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |                      |       |                  |
|------------------------------------------------|----------------------|-------|------------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method           |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day   | 0.232 | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |                  |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |                  |

### 1.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 1.4.1. Environment

|                        |                 |
|------------------------|-----------------|
| Guidance - Environment | Not applicable. |
|------------------------|-----------------|

#### 1.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2. ES 2 - ES 2 Formulation or re-packing

#### 2.1. Title section

##### ES 2 Formulation or re-packing

ES Ref.: ES 2  
ES Type: Worker

| Environment |                          | Use descriptors |
|-------------|--------------------------|-----------------|
| CS 1        | Formulation into mixture | ERC2            |

| Worker |                                                                                                                                                                      | Use descriptors |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 | PROC2           |
| CS 3   | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3           |
| CS 4   | Chemical production where opportunity for exposure arises                                                                                                            | PROC4           |
| CS 5   | Mixing or blending in batch processes                                                                                                                                | PROC5           |
| CS 6   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |
| CS 7   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 8   | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                                  | PROC9           |
| CS 9   | Tabletting, compression, extrusion, pelettisation, granulation                                                                                                       | PROC14          |
| CS 10  | Use as laboratory reagent                                                                                                                                            | PROC15          |
| CS 11  | Manual activities involving hand contact                                                                                                                             | PROC19          |
| CS 12  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |
| CS 13  | Mixing or blending in batch processes                                                                                                                                | PROC5           |
| CS 14  | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 15  | Use as laboratory reagent                                                                                                                                            | PROC15          |
| CS 16  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |
| CS 17  | Manual activities involving hand contact                                                                                                                             | PROC19          |
| CS 18  | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2.2. Conditions of use affecting exposure

#### 2.2.1. Control of environmental exposure: Formulation into mixture (ERC2)

|      |                          |
|------|--------------------------|
| ERC2 | Formulation into mixture |
|------|--------------------------|

#### Conditions and measures related to sewage treatment plant

|                                                              |                               |
|--------------------------------------------------------------|-------------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 %<br>effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                   |
| Controlled application of sewage sludge to agricultural soil | Yes                           |

#### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

#### 2.2.2. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

|       |                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

#### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

#### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

#### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

#### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

#### 2.2.3. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

|       |                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                        |
|---------------------------------------------------------------------------------------|------------------------|
| Respiratory protection                                                                | No. Effectiveness : 0% |
| Protective gloves                                                                     | No. Effectiveness : 0% |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 2.2.4. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

|       |                                                           |
|-------|-----------------------------------------------------------|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|-----------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 2.2.5. Control of worker exposure: Mixing or blending in batch processes (PROC5)

|       |                                       |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 2.2.6. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

|        |                                                                                         |
|--------|-----------------------------------------------------------------------------------------|
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
|--------|-----------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 2.2.7. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|-------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |  |
|---------------------------------------------|--|
| Indoor use                                  |  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

### 2.2.8. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 2.2.9. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

|        |                                                               |
|--------|---------------------------------------------------------------|
| PROC14 | Tableting, compression, extrusion, pelettisation, granulation |
|--------|---------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

#### 2.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

PROC15

Use as laboratory reagent

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

#### 2.2.11. Control of worker exposure: Manual activities involving hand contact (PROC19)

PROC19

Manual activities involving hand contact

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Product (article) characteristics |                         |
|-----------------------------------|-------------------------|
| Dustiness                         | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Avoid carrying out operation for more than 4 hours,Covers exposure up to:      | ≤ 4 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Efficiency of at least:                                                                               | 95 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 2.2.12. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

|        |                                                       |
|--------|-------------------------------------------------------|
| PROC28 | Manual maintenance (cleaning and repair) of machinery |
|--------|-------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                                                                   |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                         | 80 %<br>For further specification, refer to section 8 of the SDS. |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 2.2.13. Control of worker exposure: Mixing or blending in batch processes (PROC5)

PROC5

Mixing or blending in batch processes

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

### 2.2.14. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 115 °C |
|-----------------------------------|----------|

#### 2.2.15. Control of worker exposure: Use as laboratory reagent (PROC15)

|        |                           |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

### Product (article) characteristics

|                          |        |
|--------------------------|--------|
| Physical form of product | Liquid |
|--------------------------|--------|

|                                       |        |
|---------------------------------------|--------|
| Concentration of substance in product | ≤ 30 % |
|---------------------------------------|--------|

|                 |           |
|-----------------|-----------|
| Vapour pressure | < 0.01 Pa |
|-----------------|-----------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

|                   |                        |
|-------------------|------------------------|
| Protective gloves | No. Effectiveness : 0% |
|-------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 115 °C |
|-----------------------------------|----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2.2.16. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

|        |                                                       |
|--------|-------------------------------------------------------|
| PROC28 | Manual maintenance (cleaning and repair) of machinery |
|--------|-------------------------------------------------------|

| Product (article) characteristics     |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |          |
|---------------------------------------------|----------|
| Indoor use                                  |          |
| Assumes process temperature up to           | ≤ 115 °C |

### 2.2.17. Control of worker exposure: Manual activities involving hand contact (PROC19)

|        |                                          |
|--------|------------------------------------------|
| PROC19 | Manual activities involving hand contact |
|--------|------------------------------------------|

| Product (article) characteristics     |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures          |                                              |
|---------------------------------------------------------------|----------------------------------------------|
| Provide enhanced general ventilation by mechanical means      |                                              |
| Local exhaust ventilation                                     | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing |                                              |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

Ensure regular inspection, cleaning and maintenance of equipment and machines.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Efficiency of at least:

95 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

Use in room with a volume of minimum 100 m<sup>3</sup>.

100 - 1000 m<sup>3</sup>

Distance to task: In the breathing zone of the worker (<1 meter)

< 1 m<sup>3</sup>

### 2.2.18. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Assumes process temperature up to

≤ 115 °C

### 2.3. Exposure estimation and reference to its source

#### 2.3.1. Environmental release and exposure Formulation into mixture (ERC2)

| Protection target      | Exposure estimation  | PNEC            | RCR   | Assessment method |
|------------------------|----------------------|-----------------|-------|-------------------|
| Freshwater             | 0.248 mg/l           | 0.51 mg/l       | 0.49  | EUSES 2.2.0       |
| Marine water           | 0.025 mg/l           | 0.051 mg/l      | < 0.5 | EUSES 2.2.0       |
| Secondary poisoning    |                      |                 | 0.06  | EUSES 2.2.0       |
| Freshwater sediment    | 6.348 mg/kg dwt      | 13.06 mg/kg dwt | 0.49  | EUSES 2.2.0       |
| Marine water sediment  | 0.652 mg/kg dwt      | 1.306 mg/kg dwt | 0.5   | EUSES 2.2.0       |
| Sewage treatment plant | 2.431 mg/l           | 100 mg/l        | 0.02  | EUSES 2.2.0       |
| Soil                   | 1.7 mg/kg wet weight | 2.312 mg/kg dwt | 0.75  | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 5 kg/day     |                           |
| Release estimation | Air                   | 1 kg/day     |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

#### 2.3.2. Worker exposure Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

##### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate: | RCR   | Method      |
|-------------------------------------------|--------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 1.37 mg/kg bw/day  | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects | 0.5 mg/m³          | 0.06  | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |         |       |             |
|------------------------------------------------|---------|-------|-------------|
| Sum RCR - Long-term - systemic effects         |         | 0.176 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m³ | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |         | 0.024 |             |

### 2.3.3. Worker exposure Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.69 mg/kg bw/day  | 0.058 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m³            | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.178 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m³            | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.049 |             |

### 2.3.4. Worker exposure Chemical production where opportunity for exposure arises (PROC4)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m³            | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.718 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m³           | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.243 |             |

### 2.3.5. Worker exposure Mixing or blending in batch processes (PROC5)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m³            | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.834 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m³           | 0.243 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                    |  |       |  |
|------------------------------------|--|-------|--|
| Sum RCR - Acute - systemic effects |  | 0.243 |  |
|------------------------------------|--|-------|--|

### 2.3.6. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

### 2.3.7. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:  | RCR   | Method      |
|-------------------------------------------|---------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day  | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                     | 0.352 |             |
| Inhalation - Acute - systemic effects     | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                     | 0.049 |             |

### 2.3.8. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.718 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 2.3.9. Worker exposure Tableting, compression, extrusion, pelettisation, granulation (PROC14)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 3.43 mg/kg bw/day   | 0.291 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.411 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

### 2.3.10. Worker exposure Use as laboratory reagent (PROC15)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.34 mg/kg bw/day     | 0.029 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.089 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.024 |             |

### 2.3.11. Worker exposure Manual activities involving hand contact (PROC19)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 7.072 mg/kg bw/day   | 0.599 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 3 mg/m <sup>3</sup>  | 0.361 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.96  |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 2.3.12. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario |  |  |  |
|------------------------------------------------|--|--|--|
| Exposure estimate: PROC 8a, TRA Workers v3.1   |  |  |  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |                    |       |                  |
|------------------------------------------------|--------------------|-------|------------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method           |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day | 0.232 | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects      | 5 mg/m³            | 0.602 | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects         |                    | 0.834 |                  |
| Inhalation - Acute - systemic effects          | 20 mg/m³           | 0.243 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                    | 0.243 |                  |

### 2.3.13. Worker exposure Mixing or blending in batch processes (PROC5)

| Information for contributing exposure scenario |                    |        |             |
|------------------------------------------------|--------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 2.743 mg/kg bw/day | 0.232  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m³        | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.295  |             |
| Inhalation - Acute - systemic effects          | 0.525 mg/m³        | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | < 0.01 |             |

### 2.3.14. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                    |        |             |
|------------------------------------------------|--------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 2.743 mg/kg bw/day | 0.232  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m³        | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.295  |             |
| Inhalation - Acute - systemic effects          | 0.525 mg/m³        | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | < 0.01 |             |

### 2.3.15. Worker exposure Use as laboratory reagent (PROC15)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.34 mg/kg bw/day  | 0.029 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.092  |             |
| Inhalation - Acute - systemic effects          | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

### 2.3.16. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario |                         |        |                  |
|------------------------------------------------|-------------------------|--------|------------------|
| Exposure estimate: PROC 8a, TRA Workers v3.1   |                         |        |                  |
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method           |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day      | 0.232  | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects         |                         | 0.295  |                  |
| Inhalation - Acute - systemic effects          | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |                  |

### 2.3.17. Worker exposure Manual activities involving hand contact (PROC19)

| Information for contributing exposure scenario |                        |       |                   |
|------------------------------------------------|------------------------|-------|-------------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR   | Method            |
| Dermal - Long-term - systemic effects          | 7.072 mg/kg bw/day     | 0.599 | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 1.74 mg/m <sup>3</sup> | 0.21  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                        | 0.809 |                   |
| Inhalation - Acute - systemic effects          | 1.74 mg/m <sup>3</sup> | 0.021 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects             |                        | 0.021 |                   |

### 2.3.18. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                         |       |             |
|------------------------------------------------|-------------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day      | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                        |                         |        |             |
|----------------------------------------|-------------------------|--------|-------------|
| Sum RCR - Long-term - systemic effects |                         | 0.295  |             |
| Inhalation - Acute - systemic effects  | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects     |                         | < 0.01 |             |

### 2.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 2.4.1. Environment

No data available

#### 2.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3. ES 3 - ES 3 Use at industrial sites - Use as monomer (intermediate) for melamine based resins production

#### 3.1. Title section

##### ES 3 Use at industrial sites - Use as monomer (intermediate) for melamine based resins production

ES Ref.: ES 3  
ES Type: Worker

| Environment |                                                                                                                         | Use descriptors |
|-------------|-------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 1        | Use of intermediate, Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) | ERC6a, ERC6c    |

| Worker |                                                                                                                                                                      | Use descriptors |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                 | PROC1           |
| CS 3   | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 | PROC2           |
| CS 4   | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3           |
| CS 5   | Chemical production where opportunity for exposure arises                                                                                                            | PROC4           |
| CS 6   | Mixing or blending in batch processes                                                                                                                                | PROC5           |
| CS 7   | Calendering operations                                                                                                                                               | PROC6           |
| CS 8   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |
| CS 9   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 10  | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                                  | PROC9           |
| CS 11  | Tabletting, compression, extrusion, pelettisation, granulation                                                                                                       | PROC14          |
| CS 12  | Use as laboratory reagent                                                                                                                                            | PROC15          |
| CS 13  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |
| CS 14  | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |
| CS 15  | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 16  | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                                  | PROC9           |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3.2. Conditions of use affecting exposure

#### 3.2.1. Control of environmental exposure: Use of intermediate, Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6a, ERC6c)

|       |                                                                                                    |
|-------|----------------------------------------------------------------------------------------------------|
| ERC6a | Use of intermediate                                                                                |
| ERC6c | Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) |

#### Product (article) characteristics

|                                       |         |
|---------------------------------------|---------|
| Concentration of substance in product | ≤ 100 % |
|---------------------------------------|---------|

#### Conditions and measures related to sewage treatment plant

|                                                              |                               |
|--------------------------------------------------------------|-------------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 %<br>effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                   |
| Controlled application of sewage sludge to agricultural soil | Yes                           |

#### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

#### 3.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|       |                                                                                                                                      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|

#### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

#### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

#### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

#### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

#### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

|       |                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                        |
|---------------------------------------------------------------------------------------|------------------------|
| Respiratory protection                                                                | No. Effectiveness : 0% |
| Protective gloves                                                                     | No. Effectiveness : 0% |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 3.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

|       |                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

#### 3.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

|       |                                                           |
|-------|-----------------------------------------------------------|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|-----------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

#### 3.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

|       |                                       |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

#### 3.2.7. Control of worker exposure: Calendering operations (PROC6)

|       |                        |
|-------|------------------------|
| PROC6 | Calendering operations |
|-------|------------------------|

### Product (article) characteristics

|                          |       |
|--------------------------|-------|
| Physical form of product | Solid |
|--------------------------|-------|

|                                       |         |
|---------------------------------------|---------|
| Concentration of substance in product | ≤ 100 % |
|---------------------------------------|---------|

|           |                         |
|-----------|-------------------------|
| Dustiness | Solid, medium dustiness |
|-----------|-------------------------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                           |                                                                   |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Efficiency of at least: | 90 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 3.2.8. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 3.2.9. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 3.2.10. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3.2.11. Control of worker exposure: Tableting, compression, extrusion, pelettisation, granulation (PROC14)

|        |                                                               |
|--------|---------------------------------------------------------------|
| PROC14 | Tableting, compression, extrusion, pelettisation, granulation |
|--------|---------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                        |
|---------------------------------------------------------------------------------------|------------------------|
| Respiratory protection                                                                | No. Effectiveness : 0% |
| Protective gloves                                                                     | No. Effectiveness : 0% |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 3.2.12. Control of worker exposure: Use as laboratory reagent (PROC15)

|        |                           |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                        |
|---------------------------------------------------------------------------------------|------------------------|
| Respiratory protection                                                                | No. Effectiveness : 0% |
| Protective gloves                                                                     | No. Effectiveness : 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 3.2.13. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

PROC28

Manual maintenance (cleaning and repair) of machinery

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 3.2.14. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 10 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

### 3.2.15. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 10 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

### 3.2.16. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

PROC9

Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 10 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |          |
|-----------------------------------|----------|
| Indoor use                        |          |
| Assumes process temperature up to | ≤ 115 °C |

## 3.3. Exposure estimation and reference to its source

3.3.1. Environmental release and exposure Use of intermediate, Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6a, ERC6c)

| Protection target     | Exposure estimation | PNEC            | RCR  | Assessment method |
|-----------------------|---------------------|-----------------|------|-------------------|
| Freshwater            | 0.151 mg/l          | 0.51 mg/l       | 0.3  | EUSES 2.2.0       |
| Marine water          | 0.015 mg/l          | 0.051 mg/l      | 0.29 | EUSES 2.2.0       |
| Secondary poisoning   |                     |                 | 0.03 | EUSES 2.2.0       |
| Freshwater sediment   | 3.86 mg/kg dwt      | 13.06 mg/kg dwt | 0.3  | EUSES 2.2.0       |
| Marine water sediment | 0.396 mg/kg dwt     | 1.306 mg/kg dwt | 0.3  | EUSES 2.2.0       |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Sewage treatment plant | 1.458 mg/l          | 100 mg/l        | < 0.02 | EUSES 2.2.0       |
| Soil                   | 1.014 mg/kg dwt     | 2.312 mg/kg dwt | 0.44   | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 3 kg/day     |                           |
| Release estimation | Air                   | 0.5 kg/day   |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 3.3.2. Worker exposure Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Information for contributing exposure scenario |                        |        |             |
|------------------------------------------------|------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 0.034 mg/kg bw/day     | < 0.01 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.01 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                        | < 0.02 |             |
| Inhalation - Acute - systemic effects          | 0.04 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                        | < 0.01 |             |

### 3.3.3. Worker exposure Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.37 mg/kg bw/day     | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.176 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.024 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3.3.4. Worker exposure Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.69 mg/kg bw/day   | 0.058 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.178 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

### 3.3.5. Worker exposure Chemical production where opportunity for exposure arises (PROC4)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.718 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 3.3.6. Worker exposure Mixing or blending in batch processes (PROC5)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3.3.7. Worker exposure Calendering operations (PROC6)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.743 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 3.3.8. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 3.3.9. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day  | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.352 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

### 3.3.10. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day | 0.116 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                           |                      |       |             |
|-------------------------------------------|----------------------|-------|-------------|
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.718 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

### 3.3.11. Worker exposure Tableting, compression, extrusion, pelettisation, granulation (PROC14)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:  | RCR   | Method      |
|-------------------------------------------|---------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 3.43 mg/kg bw/day   | 0.291 | TRA Workers |
| Inhalation - Long-term - systemic effects | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                     | 0.411 |             |
| Inhalation - Acute - systemic effects     | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                     | 0.049 |             |

### 3.3.12. Worker exposure Use as laboratory reagent (PROC15)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:    | RCR   | Method      |
|-------------------------------------------|-----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 0.34 mg/kg bw/day     | 0.029 | TRA Workers |
| Inhalation - Long-term - systemic effects | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                       | 0.089 |             |
| Inhalation - Acute - systemic effects     | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                       | 0.024 |             |

### 3.3.13. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

#### Information for contributing exposure scenario

Exposure estimate: PROC 8a, TRA Workers v3.1

| Route of exposure and type of effects     | Exposure estimate:  | RCR   | Method           |
|-------------------------------------------|---------------------|-------|------------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day  | 0.232 | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup> | 0.602 | TRA Workers v3.1 |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |                      |       |                  |
|------------------------------------------------|----------------------|-------|------------------|
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |                  |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |                  |

### 3.3.14. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 8.226 mg/kg bw/day      | 0.697  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.315 mg/m <sup>3</sup> | 0.038  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.735  |             |
| Inhalation - Acute - systemic effects          | 0.315 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

### 3.3.15. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 8.226 mg/kg bw/day      | 0.697  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.315 mg/m <sup>3</sup> | 0.038  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.735  |             |
| Inhalation - Acute - systemic effects          | 0.315 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

### 3.3.16. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 4.114 mg/kg bw/day      | 0.349  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.315 mg/m <sup>3</sup> | 0.038  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.387  |             |
| Inhalation - Acute - systemic effects          | 0.315 mg/m <sup>3</sup> | < 0.01 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |  |        |  |
|------------------------------------------------|--|--------|--|
| Sum RCR - Acute - systemic effects             |  | < 0.01 |  |

### 3.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 3.4.1. Environment

No data available

#### 3.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 4. ES 4 - ES 4 Use at industrial sites - Use as monomer (intermediate) in melamine based resins before curing

#### 4.1. Title section

##### ES 4 Use at industrial sites - Use as monomer (intermediate) in melamine based resins before curing

ES Ref.: ES 4  
ES Type: Worker

| Environment |                                                                                                    | Use descriptors |
|-------------|----------------------------------------------------------------------------------------------------|-----------------|
| CS1         | Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) | ERC6c           |

| Worker |                                                                                                | Use descriptors |
|--------|------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze | PROC7           |
| CS 3   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities        | PROC8a          |
| CS 4   | Transfer of substance or mixture (charging and discharging) at dedicated facilities            | PROC8b          |
| CS 5   | Handling of liquids on large surfaces or large work pieces                                     | PROC10          |
| CS 6   | Handling of liquids using low pressure, low speed or on medium-sized surfaces                  | PROC19          |
| CS 7   | Manual maintenance (cleaning and repair) of machinery                                          | PROC28          |
| CS 8   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities        | PROC8a          |
| CS 9   | Transfer of substance or mixture (charging and discharging) at dedicated facilities            | PROC8b          |
| CS 10  | Calendering operations                                                                         | PROC6           |

#### 4.2. Conditions of use affecting exposure

##### 4.2.1. Control of environmental exposure: Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

|       |                                                                                                    |
|-------|----------------------------------------------------------------------------------------------------|
| ERC6c | Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) |
|-------|----------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |         |
|---------------------------------------|---------|
| Concentration of substance in product | ≤ 100 % |

| Conditions and measures related to sewage treatment plant    |                            |
|--------------------------------------------------------------|----------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 % effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                |
| Controlled application of sewage sludge to agricultural soil | Yes                        |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

### 4.2.2. Control of worker exposure: Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze (PROC7)

|       |                     |
|-------|---------------------|
| PROC7 | Industrial spraying |
|-------|---------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 10 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide enhanced general ventilation by mechanical means                                                                                |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |
| Ensure regular inspection, cleaning and maintenance of equipment and machines.                                                          |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Indoor use                                                       |                                |
| Assumes process temperature up to                                | ≤ 115 °C                       |
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |

### 4.2.3. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

|        |                                                                                         |
|--------|-----------------------------------------------------------------------------------------|
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
|--------|-----------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 10 %    |
| Vapour pressure                       | < 0.01 Pa |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

|                   |                        |
|-------------------|------------------------|
| Protective gloves | No. Effectiveness : 0% |
|-------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 115 °C |
|-----------------------------------|----------|

#### 4.2.4. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|-------------------------------------------------------------------------------------|

### Product (article) characteristics

|                          |        |
|--------------------------|--------|
| Physical form of product | Liquid |
|--------------------------|--------|

|                                       |        |
|---------------------------------------|--------|
| Concentration of substance in product | ≤ 10 % |
|---------------------------------------|--------|

|                 |          |
|-----------------|----------|
| Vapour pressure | 0.016 Pa |
|-----------------|----------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                          |  |
|----------------------------------------------------------|--|
| Provide enhanced general ventilation by mechanical means |  |
|----------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                               |  |
|---------------------------------------------------------------|--|
| Task is followed by a period of evaporation, drying or curing |  |
|---------------------------------------------------------------|--|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Ensure regular inspection, cleaning and maintenance of equipment and machines. |  |
|--------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

|                   |                        |
|-------------------|------------------------|
| Protective gloves | No. Effectiveness : 0% |
|-------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 120 °C |
|-----------------------------------|----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |

#### 4.2.5. Control of worker exposure: Handling of liquids on large surfaces or large work pieces (PROC10)

|        |                                |
|--------|--------------------------------|
| PROC10 | Roller application or brushing |
|--------|--------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 10 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide enhanced general ventilation by mechanical means                                                                                |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Ensure regular inspection, cleaning and maintenance of equipment and machines.                                                          |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |
| Indoor use                                                       |                                |
| Assumes process temperature up to                                | ≤ 115 °C                       |
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |

#### 4.2.6. Control of worker exposure: Handling of liquids using low pressure, low speed or on medium-sized surfaces (PROC19)

|        |                                          |
|--------|------------------------------------------|
| PROC19 | Manual activities involving hand contact |
|--------|------------------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 10 %    |
| Vapour pressure                       | < 0.01 Pa |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                          |  |
|----------------------------------------------------------|--|
| Provide enhanced general ventilation by mechanical means |  |
|----------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                               |  |
|---------------------------------------------------------------|--|
| Task is followed by a period of evaporation, drying or curing |  |
|---------------------------------------------------------------|--|

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Ensure regular inspection, cleaning and maintenance of equipment and machines. |  |
|--------------------------------------------------------------------------------|--|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 90 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 115 °C |
|-----------------------------------|----------|

|                                              |               |
|----------------------------------------------|---------------|
| Use in room with a volume of minimum 100 m3. | 100 - 1000 m3 |
|----------------------------------------------|---------------|

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |
|------------------------------------------------------------------|--------------------------------|

#### 4.2.7. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

|        |                                                       |
|--------|-------------------------------------------------------|
| PROC28 | Manual maintenance (cleaning and repair) of machinery |
|--------|-------------------------------------------------------|

### Product (article) characteristics

|                          |        |
|--------------------------|--------|
| Physical form of product | Liquid |
|--------------------------|--------|

|                                       |        |
|---------------------------------------|--------|
| Concentration of substance in product | ≤ 10 % |
|---------------------------------------|--------|

|                 |           |
|-----------------|-----------|
| Vapour pressure | < 0.01 Pa |
|-----------------|-----------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

#### 4.2.8. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 10 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

#### 4.2.9. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 10 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Provide enhanced general ventilation by mechanical means

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

#### 4.2.10. Control of worker exposure: Calendering operations (PROC6)

PROC6

Calendering operations

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 10 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide enhanced general ventilation by mechanical means

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 4.3. Exposure estimation and reference to its source

#### 4.3.1. Environmental release and exposure Use of monomer in polymerisation processes at industrial site (inclusion or not into/onto article) (ERC6c)

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Freshwater             | 0.029 mg/l          | 0.51 mg/l       | 0.06   | EUSES 2.2.0       |
| Marine water           | 0.00298 mg/l        | 0.051 mg/l      | 0.06   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.75 mg/kg dwt      | 13.06 mg/kg dwt | 0.06   | EUSES 2.2.0       |
| Marine water sediment  | 0.076 mg/kg dwt     | 1.306 mg/kg dwt | 0.06   | EUSES 2.2.0       |
| Sewage treatment plant | 0.243 mg/l          | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0.164 mg/kg dwt     | 2.312 mg/kg dwt | 0.07   | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 0.5 kg/day   |                           |
| Release estimation | Air                   | 0 kg/day     |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

#### 4.3.2. Worker exposure Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze (PROC7)

| Information for contributing exposure scenario |                        |       |                   |
|------------------------------------------------|------------------------|-------|-------------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR   | Method            |
| Dermal - Long-term - systemic effects          | 5.143 mg/kg bw/day     | 0.436 | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 3.85 mg/m <sup>3</sup> | 0.464 | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                        | 0.9   |                   |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                       |                        |      |                   |
|---------------------------------------|------------------------|------|-------------------|
| Inhalation - Acute - systemic effects | 3.85 mg/m <sup>3</sup> | 0.05 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects    |                        | 0.05 |                   |

#### 4.3.3. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:      | RCR    | Method      |
|-------------------------------------------|-------------------------|--------|-------------|
| Dermal - Long-term - systemic effects     | 8.226 mg/kg bw/day      | 0.697  | TRA Workers |
| Inhalation - Long-term - systemic effects | 0.315 mg/m <sup>3</sup> | 0.038  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                         | 0.735  |             |
| Inhalation - Acute - systemic effects     | 0.315 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                         | < 0.01 |             |

#### 4.3.4. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:     | RCR    | Method            |
|-------------------------------------------|------------------------|--------|-------------------|
| Dermal - Long-term - systemic effects     | 8.226 mg/kg bw/day     | 0.697  | TRA Workers       |
| Inhalation - Long-term - systemic effects | 0.38 mg/m <sup>3</sup> | 0.046  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects    |                        | 0.743  |                   |
| Inhalation - Acute - systemic effects     | 0.38 mg/m <sup>3</sup> | < 0.01 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects        |                        | < 0.01 |                   |

#### 4.3.5. Worker exposure Handling of liquids on large surfaces or large work pieces (PROC10)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:     | RCR   | Method            |
|-------------------------------------------|------------------------|-------|-------------------|
| Dermal - Long-term - systemic effects     | 3.29 mg/kg bw/day      | 0.279 | TRA Workers       |
| Inhalation - Long-term - systemic effects | 1.74 mg/m <sup>3</sup> | 0.21  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects    |                        | 0.489 |                   |
| Inhalation - Acute - systemic effects     | 1.74 mg/m <sup>3</sup> | 0.021 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects        |                        | 0.021 |                   |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 4.3.6. Worker exposure Handling of liquids using low pressure, low speed or on medium-sized surfaces (PROC19)

| Information for contributing exposure scenario |                        |       |                   |
|------------------------------------------------|------------------------|-------|-------------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR   | Method            |
| Dermal - Long-term - systemic effects          | 8.486 mg/kg bw/day     | 0.719 | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 0.84 mg/m <sup>3</sup> | 0.101 | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                        | 0.82  |                   |
| Inhalation - Acute - systemic effects          | 0.84 mg/m <sup>3</sup> | 0.01  | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects             |                        | 0.01  |                   |

### 4.3.7. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario |                         |        |                  |
|------------------------------------------------|-------------------------|--------|------------------|
| Exposure estimate: PROC 8a, TRA Workers v3.1   |                         |        |                  |
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method           |
| Dermal - Long-term - systemic effects          | 8.226 mg/kg bw/day      | 0.697  | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects      | 0.315 mg/m <sup>3</sup> | 0.038  | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects         |                         | 0.735  |                  |
| Inhalation - Acute - systemic effects          | 0.315 mg/m <sup>3</sup> | < 0.01 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |                  |

### 4.3.8. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.645 mg/kg bw/day   | 0.139 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 3 mg/m <sup>3</sup>  | 0.361 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.5   |             |
| Inhalation - Acute - systemic effects          | 12 mg/m <sup>3</sup> | 0.146 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.146 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 4.3.9. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 8.226 mg/kg bw/day    | 0.697 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.6 mg/m <sup>3</sup> | 0.072 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.769 |             |
| Inhalation - Acute - systemic effects          | 2.4 mg/m <sup>3</sup> | 0.029 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.029 |             |

### 4.3.10. Worker exposure Calendering operations (PROC6)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 3.291 mg/kg bw/day      | 0.279  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.315 mg/m <sup>3</sup> | 0.038  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.317  |             |
| Inhalation - Acute - systemic effects          | 0.315 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

## 4.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

### 4.4.1. Environment

No data available

### 4.4.2. Health

No data available

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 5. ES 5 - ES 5 Use at industrial sites - Use as intermediate for the production of other substances e.g. melamine salt (reacted melamine)

#### 5.1. Title section

**ES 5 Use at industrial sites - Use as intermediate for the production of other substances e.g. melamine salt (reacted melamine)**

ES Ref.: ES 5  
ES Type: Worker

| Environment |                     | Use descriptors |
|-------------|---------------------|-----------------|
| CS 1        | Use of intermediate | ERC6a           |

| Worker |                                                                                                                                                                      | Use descriptors |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                 | PROC1           |
| CS 3   | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 | PROC2           |
| CS 4   | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3           |
| CS 5   | Chemical production where opportunity for exposure arises                                                                                                            | PROC4           |
| CS 6   | Mixing or blending in batch processes                                                                                                                                | PROC5           |
| CS 7   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |
| CS 8   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 9   | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                                  | PROC9           |
| CS 10  | Use as laboratory reagent                                                                                                                                            | PROC15          |
| CS 11  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |

#### 5.2. Conditions of use affecting exposure

##### 5.2.1. Control of environmental exposure: Use of intermediate (ERC6a)

|       |                     |
|-------|---------------------|
| ERC6a | Use of intermediate |
|-------|---------------------|

| Conditions and measures related to sewage treatment plant    |                            |
|--------------------------------------------------------------|----------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 % effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                |
| Controlled application of sewage sludge to agricultural soil | Yes                        |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

### 5.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|       |                                                                                                                                      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 5.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

|       |                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

#### 5.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

|       |                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

#### 5.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

|       |                                                           |
|-------|-----------------------------------------------------------|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|-----------------------------------------------------------|

### Product (article) characteristics

|                                       |         |
|---------------------------------------|---------|
| Physical form of product              | Solid   |
| Concentration of substance in product | ≤ 100 % |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Product (article) characteristics |                         |
|-----------------------------------|-------------------------|
| Dustiness                         | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

**5.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)**

|       |                                       |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                                                                   |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                         | 80 %<br>For further specification, refer to section 8 of the SDS. |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 5.2.7. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 5.2.8. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

### 5.2.9. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                          |       |
|--------------------------|-------|
| Physical form of product | Solid |
|--------------------------|-------|

|                                       |         |
|---------------------------------------|---------|
| Concentration of substance in product | ≤ 100 % |
|---------------------------------------|---------|

|           |                         |
|-----------|-------------------------|
| Dustiness | Solid, medium dustiness |
|-----------|-------------------------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 5.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

PROC15

Use as laboratory reagent

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 5.2.11. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

PROC28

Manual maintenance (cleaning and repair) of machinery

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least: 80 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 5.3. Exposure estimation and reference to its source

#### 5.3.1. Environmental release and exposure Use of intermediate (ERC6a)

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Freshwater             | 0.151 mg/l          | 0.51 mg/l       | 0.3    | EUSES 2.2.0       |
| Marine water           | 0.015 mg/l          | 0.051 mg/l      | 0.29   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | 0.03   | EUSES 2.2.0       |
| Freshwater sediment    | 3.86 mg/kg dwt      | 13.06 mg/kg dwt | 0.3    | EUSES 2.2.0       |
| Marine water sediment  | 0.396 mg/kg dwt     | 1.306 mg/kg dwt | 0.3    | EUSES 2.2.0       |
| Sewage treatment plant | 1.485 mg/l          | 100 mg/l        | < 0.02 | EUSES 2.2.0       |
| Soil                   | 1.014 mg/kg dwt     | 2.312 mg/kg dwt | 0.44   | EUSES 2.2.0       |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 3 kg/day     |                           |
| Release estimation | Air                   | 0.5 kg/day   |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 5.3.2. Worker exposure Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Information for contributing exposure scenario |                        |        |             |
|------------------------------------------------|------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 0.034 mg/kg bw/day     | < 0.01 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.01 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                        | < 0.02 |             |
| Inhalation - Acute - systemic effects          | 0.04 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                        | < 0.01 |             |

### 5.3.3. Worker exposure Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.37 mg/kg bw/day     | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.176 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.024 |             |

### 5.3.4. Worker exposure Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.69 mg/kg bw/day   | 0.058 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.178 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                    |  |       |  |
|------------------------------------|--|-------|--|
| Sum RCR - Acute - systemic effects |  | 0.049 |  |
|------------------------------------|--|-------|--|

#### 5.3.5. Worker exposure Chemical production where opportunity for exposure arises (PROC4)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.718 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

#### 5.3.6. Worker exposure Mixing or blending in batch processes (PROC5)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

#### 5.3.7. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 5.3.8. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day  | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.352 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

### 5.3.9. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.718 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 5.3.10. Worker exposure Use as laboratory reagent (PROC15)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.34 mg/kg bw/day     | 0.029 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.089 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.024 |             |

### 5.3.11. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario |  |  |  |
|------------------------------------------------|--|--|--|
| Exposure estimate: PROC 8a, TRA Workers v3.1   |  |  |  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |                      |       |                             |
|------------------------------------------------|----------------------|-------|-----------------------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method                      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day   | 0.232 | TRA Workers v3.1,ECETOC TRA |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers v3.1,ECETOC TRA |
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |                             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers v3.1,ECETOC TRA |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |                             |

### 5.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 5.4.1. Environment

No data available

#### 5.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 6. ES 6 - ES 6 Use at industrial sites - Use as additive in foams

#### 6.1. Title section

##### ES 6 Use at industrial sites - Use as additive in foams

ES Ref.: ES 6  
ES Type: Worker

| Environment |                                                               | Use descriptors |
|-------------|---------------------------------------------------------------|-----------------|
| CS 1        | Use at industrial site leading to inclusion into/onto article | ERC5            |

| Worker |                                                                                                                                                                      | Use descriptors |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions                                 | PROC1           |
| CS 3   | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions                 | PROC2           |
| CS 4   | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3           |
| CS 5   | Chemical production where opportunity for exposure arises                                                                                                            | PROC4           |
| CS 6   | Mixing or blending in batch processes                                                                                                                                | PROC5           |
| CS 7   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |
| CS 8   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 9   | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                                  | PROC9           |
| CS 10  | Use as laboratory reagent                                                                                                                                            | PROC15          |
| CS 11  | Manual activities involving hand contact                                                                                                                             | PROC19          |
| CS 12  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |

#### 6.2. Conditions of use affecting exposure

##### 6.2.1. Control of environmental exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

|      |                                                               |
|------|---------------------------------------------------------------|
| ERC5 | Use at industrial site leading to inclusion into/onto article |
|------|---------------------------------------------------------------|

| Conditions and measures related to sewage treatment plant |                               |
|-----------------------------------------------------------|-------------------------------|
| Municipal Sewage Treatment Plant                          | 2.77 %<br>effectiveness water |
| Discharge of sewage treatment plant (STP)                 | ≥ 2000 m³/d                   |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to sewage treatment plant

|                                                              |     |
|--------------------------------------------------------------|-----|
| Controlled application of sewage sludge to agricultural soil | Yes |
|--------------------------------------------------------------|-----|

### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

### 6.2.2. Control of worker exposure: Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

|       |                                                                                                                                      |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|
| PROC1 | Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions |
|-------|--------------------------------------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 6.2.3. Control of worker exposure: Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

|       |                                                                                                                                                      |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC2 | Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions |
|-------|------------------------------------------------------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

#### 6.2.4. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

PROC3

Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

#### 6.2.5. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

PROC4

Chemical production where opportunity for exposure arises

### Product (article) characteristics

Physical form of product

Solid

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 6.2.6. Control of worker exposure: Mixing or blending in batch processes (PROC5)

|       |                                       |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                                                                   |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                         | 80 %<br>For further specification, refer to section 8 of the SDS. |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 6.2.7. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 6.2.8. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

### 6.2.9. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                          |       |
|--------------------------|-------|
| Physical form of product | Solid |
|--------------------------|-------|

|                                       |         |
|---------------------------------------|---------|
| Concentration of substance in product | ≤ 100 % |
|---------------------------------------|---------|

|           |                         |
|-----------|-------------------------|
| Dustiness | Solid, medium dustiness |
|-----------|-------------------------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 6.2.10. Control of worker exposure: Use as laboratory reagent (PROC15)

PROC15

Use as laboratory reagent

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection

No. Effectiveness : 0%

Protective gloves

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 6.2.11. Control of worker exposure: Manual activities involving hand contact (PROC19)

PROC19

Manual activities involving hand contact

### Product (article) characteristics

Physical form of product

Solid

Concentration of substance in product

≤ 100 %

Dustiness

Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Avoid carrying out operation for more than 4 hours, Covers exposure up to:

≤ 4 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                            |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Efficiency of at least: | 95 %<br>For further specification, refer to section 8 of the SDS. |
|----------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

#### 6.2.12. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

|        |                                                       |
|--------|-------------------------------------------------------|
| PROC28 | Manual maintenance (cleaning and repair) of machinery |
|--------|-------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 6.3. Exposure estimation and reference to its source

#### 6.3.1. Environmental release and exposure Use at industrial site leading to inclusion into/onto article (ERC5)

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Freshwater             | 0.151 mg/l          | 0.51 mg/l       | 0.3    | EUSES 2.2.0       |
| Marine water           | 0.015 mg/l          | 0.051 mg/l      | 0.29   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | 0.03   | EUSES 2.2.0       |
| Freshwater sediment    | 3.86 mg/kg dwt      | 13.06 mg/kg dwt | 0.3    | EUSES 2.2.0       |
| Marine water sediment  | 0.396 mg/kg dwt     | 1.306 mg/kg dwt | 0.3    | EUSES 2.2.0       |
| Sewage treatment plant | 1.458 mg/l          | 100 mg/l        | < 0.02 | EUSES 2.2.0       |
| Soil                   | 1.014 mg/kg dwt     | 2.312 mg/kg dwt | 0.44   | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 3 kg/day     |                           |
| Release estimation | Air                   | 0.5 kg/day   |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

#### 6.3.2. Worker exposure Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions (PROC1)

| Information for contributing exposure scenario |                        |                  |             |
|------------------------------------------------|------------------------|------------------|-------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR              | Method      |
| Dermal - Long-term - systemic effects          | 0.034 mg/kg bw/day     | < 0.01           | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.01 mg/m <sup>3</sup> | TRA Workers 0.01 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                        | < 0.02           |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                       |                        |        |             |
|---------------------------------------|------------------------|--------|-------------|
| Inhalation - Acute - systemic effects | 0.04 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects    |                        | < 0.01 |             |

### 6.3.3. Worker exposure Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions (PROC2)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:    | RCR   | Method      |
|-------------------------------------------|-----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 1.37 mg/kg bw/day     | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                       | 0.176 |             |
| Inhalation - Acute - systemic effects     | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                       | 0.024 |             |

### 6.3.4. Worker exposure Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:  | RCR   | Method      |
|-------------------------------------------|---------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 0.69 mg/kg bw/day   | 0.058 | TRA Workers |
| Inhalation - Long-term - systemic effects | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                     | 0.178 |             |
| Inhalation - Acute - systemic effects     | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                     | 0.049 |             |

### 6.3.5. Worker exposure Chemical production where opportunity for exposure arises (PROC4)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.718 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                    |  |       |  |
|------------------------------------|--|-------|--|
| Sum RCR - Acute - systemic effects |  | 0.243 |  |
|------------------------------------|--|-------|--|

### 6.3.6. Worker exposure Mixing or blending in batch processes (PROC5)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

### 6.3.7. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method        |
|-------------------------------------------|----------------------|-------|---------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers   |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers   |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |               |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | Measured data |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |               |

### 6.3.8. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:  | RCR   | Method      |
|-------------------------------------------|---------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day  | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                     | 0.352 |             |
| Inhalation - Acute - systemic effects     | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                     | 0.049 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 6.3.9. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.718 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 6.3.10. Worker exposure Use as laboratory reagent (PROC15)

| Information for contributing exposure scenario |                       |       |             |
|------------------------------------------------|-----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:    | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.34 mg/kg bw/day     | 0.029 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                       | 0.089 |             |
| Inhalation - Acute - systemic effects          | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                       | 0.024 |             |

### 6.3.11. Worker exposure Manual activities involving hand contact (PROC19)

| Information for contributing exposure scenario |                      |       |               |
|------------------------------------------------|----------------------|-------|---------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method        |
| Dermal - Long-term - systemic effects          | 7.072 mg/kg bw/day   | 0.599 | TRA Workers   |
| Inhalation - Long-term - systemic effects      | 3 mg/m <sup>3</sup>  | 0.361 | TRA Workers   |
| Sum RCR - Long-term - systemic effects         |                      | 0.96  |               |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | Measured data |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |               |

### 6.3.12. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

| Information for contributing exposure scenario |  |  |  |
|------------------------------------------------|--|--|--|
| Exposure estimate: PROC 8a, TRA Workers v3.1   |  |  |  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Information for contributing exposure scenario |                    |       |                  |
|------------------------------------------------|--------------------|-------|------------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method           |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day | 0.232 | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects      | 5 mg/m³            | 0.602 | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects         |                    | 0.834 |                  |
| Inhalation - Acute - systemic effects          | 20 mg/m³           | 0.243 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                    | 0.243 |                  |

### 6.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 6.4.1. Environment

No data available

#### 6.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7. ES 7 - ES 7 Use at industrial sites - Use as additive in intumescent coatings

#### 7.1. Title section

##### ES 7 Use at industrial sites - Use as additive in intumescent coatings

ES Ref.: ES 7  
ES Type: Worker

| Environment |                                                               | Use descriptors |
|-------------|---------------------------------------------------------------|-----------------|
| CS 1        | Use at industrial site leading to inclusion into/onto article | ERC5            |

| Worker |                                                                                                                                                                      | Use descriptors |
|--------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition | PROC3           |
| CS 3   | Chemical production where opportunity for exposure arises                                                                                                            | PROC4           |
| CS 4   | Mixing or blending in batch processes                                                                                                                                | PROC5           |
| CS 5   | Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - With LEV                                                            | PROC7           |
| CS 6   | Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - Without LEV                                                         | PROC7           |
| CS 7   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |
| CS 8   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 9   | Transfer of substance or mixture into small containers (dedicated filling line, including weighing)                                                                  | PROC9           |
| CS 10  | Handling of liquids on large surfaces or large work pieces                                                                                                           | PROC10          |
| CS 11  | Treatment of articles by dipping and pouring                                                                                                                         | PROC13          |
| CS 12  | Use as laboratory reagent                                                                                                                                            | PROC15          |
| CS 13  | Handling of liquids using low pressure, low speed or on medium-sized surfaces                                                                                        | PROC19          |
| CS 14  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |
| CS 15  | Transfer of substance or mixture (charging and discharging) at dedicated facilities                                                                                  | PROC8b          |
| CS 16  | Manual maintenance (cleaning and repair) of machinery                                                                                                                | PROC28          |
| CS 17  | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities                                                                              | PROC8a          |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7.2. Conditions of use affecting exposure

#### 7.2.1. Control of environmental exposure: Use at industrial site leading to inclusion into/onto article (ERC5)

|      |                                                               |
|------|---------------------------------------------------------------|
| ERC5 | Use at industrial site leading to inclusion into/onto article |
|------|---------------------------------------------------------------|

#### Conditions and measures related to sewage treatment plant

|                                                              |                               |
|--------------------------------------------------------------|-------------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 %<br>effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                   |
| Controlled application of sewage sludge to agricultural soil | Yes                           |

#### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

#### 7.2.2. Control of worker exposure: Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

|       |                                                                                                                                                                      |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PROC3 | Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition |
|-------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|

#### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

#### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

#### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

#### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

#### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

#### 7.2.3. Control of worker exposure: Chemical production where opportunity for exposure arises (PROC4)

|       |                                                           |
|-------|-----------------------------------------------------------|
| PROC4 | Chemical production where opportunity for exposure arises |
|-------|-----------------------------------------------------------|

#### Product (article) characteristics

|                          |       |
|--------------------------|-------|
| Physical form of product | Solid |
|--------------------------|-------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 7.2.4. Control of worker exposure: Mixing or blending in batch processes (PROC5)

|       |                                       |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                                                                   |
|---------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                         | 80 %<br>For further specification, refer to section 8 of the SDS. |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 7.2.5. Control of worker exposure: Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - With LEV (PROC7)

PROC7

Industrial spraying

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide enhanced general ventilation by mechanical means

Local exhaust ventilation - efficiency of at least [%]:

95 %  
Inhalation. Effectiveness Dermal: 0%

Task is followed by a period of evaporation, drying or curing

Ensure regular inspection, cleaning and maintenance of equipment and machines.

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Use in room with a volume of minimum 100 m3.

100 - 1000 m3

Indoor use

Assumes process temperature up to

≤ 115 °C

Distance to task: In the breathing zone of the worker (<1 meter)

< 1 m  
distance head-product

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7.2.6. Control of worker exposure: Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - Without LEV (PROC7)

|       |                     |
|-------|---------------------|
| PROC7 | Industrial spraying |
|-------|---------------------|

| Product (article) characteristics     |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Ensure regular inspection, cleaning and maintenance of equipment and machines.                                                          |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Wear suitable respiratory protection. APF=10. Inhalation - minimum efficiency of                                                                                                                         | 90 %<br>For further specification, refer to section 8 of the SDS. |

| Other conditions affecting workers exposure                      |                                |
|------------------------------------------------------------------|--------------------------------|
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |
| Indoor use                                                       |                                |
| Assumes process temperature up to                                | ≤ 115 °C                       |
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |

### 7.2.7. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

|        |                                                                                         |
|--------|-----------------------------------------------------------------------------------------|
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
|--------|-----------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |       |
|---------------------------------------------|-------|
| Indoor use                                  |       |
| Assumes process temperature up to           | 40 °C |

### 7.2.8. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|-------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |  |
|---------------------------------------------|--|
| Indoor use                                  |  |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Assumes process temperature up to | 40 °C |
|-----------------------------------|-------|

### 7.2.9. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 7.2.10. Control of worker exposure: Handling of liquids on large surfaces or large work pieces (PROC10)

|        |                                |
|--------|--------------------------------|
| PROC10 | Roller application or brushing |
|--------|--------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide enhanced general ventilation by mechanical means                                                                                |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Ensure regular inspection, cleaning and maintenance of equipment and machines.                                                          |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure                      |                                |
|------------------------------------------------------------------|--------------------------------|
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |
| Indoor use                                                       |                                |
| Assumes process temperature up to                                | ≤ 115 °C                       |
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |

### 7.2.11. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

|        |                                              |
|--------|----------------------------------------------|
| PROC13 | Treatment of articles by dipping and pouring |
|--------|----------------------------------------------|

| Product (article) characteristics     |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|                                   |          |
|-----------------------------------|----------|
| Indoor use                        |          |
| Assumes process temperature up to | ≤ 115 °C |

### 7.2.12. Control of worker exposure: Use as laboratory reagent (PROC15)

|        |                           |
|--------|---------------------------|
| PROC15 | Use as laboratory reagent |
|--------|---------------------------|

### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
| Protective gloves      | No. Effectiveness : 0% |

### Other conditions affecting workers exposure

|                                   |       |
|-----------------------------------|-------|
| Indoor use                        |       |
| Assumes process temperature up to | 40 °C |

### 7.2.13. Control of worker exposure: Handling of liquids using low pressure, low speed or on medium-sized surfaces (PROC19)

|        |                                          |
|--------|------------------------------------------|
| PROC19 | Manual activities involving hand contact |
|--------|------------------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                          |  |
|----------------------------------------------------------|--|
| Provide enhanced general ventilation by mechanical means |  |
|----------------------------------------------------------|--|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Ensure regular inspection, cleaning and maintenance of equipment and machines.                                                          |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear chemically resistant gloves (tested to EN374) in combination with specific activity training. Efficiency of at least:                                                                               | 95 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure                      |                                |
|------------------------------------------------------------------|--------------------------------|
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |
| Indoor use                                                       |                                |
| Assumes process temperature up to                                | ≤ 115 °C                       |
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |

### 7.2.14. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

|        |                                                       |
|--------|-------------------------------------------------------|
| PROC28 | Manual maintenance (cleaning and repair) of machinery |
|--------|-------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

40 °C

### 7.2.15. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

PROC8b

Transfer of substance or mixture (charging and discharging) at dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %

For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

### 7.2.16. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

PROC28

Manual maintenance (cleaning and repair) of machinery

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

### 7.2.17. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

PROC8a

Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

### Product (article) characteristics

Physical form of product

Liquid

Concentration of substance in product

≤ 30 %

Vapour pressure

< 0.01 Pa

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration

≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation

No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Wear suitable gloves tested to EN374. Efficiency of at least:

80 %  
For further specification, refer to section 8 of the SDS.

If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands.

Respiratory protection

No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to

≤ 115 °C

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7.3. Exposure estimation and reference to its source

#### 7.3.1. Environmental release and exposure Use at industrial site leading to inclusion into/onto article (ERC5)

| Protection target      | Exposure estimation | PNEC            | RCR  | Assessment method |
|------------------------|---------------------|-----------------|------|-------------------|
| Freshwater             | 0.151 mg/l          | 0.51 mg/l       | 0.3  | EUSES 2.2.0       |
| Marine water           | 0.015 mg/l          | 0.051 mg/l      | 0.29 | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | 0.03 | EUSES 2.2.0       |
| Freshwater sediment    | 3.86 mg/kg dwt      | 13.06 mg/kg dwt | 0.3  | EUSES 2.2.0       |
| Marine water sediment  | 0.396 mg/kg dwt     | 1.306 mg/kg dwt | 0.3  | EUSES 2.2.0       |
| Sewage treatment plant | 1.458 mg/l          | 100 mg/l        | 0.02 | EUSES 2.2.0       |
| Soil                   | 1.014 mg/kg dwt     | 2.312 mg/kg dwt | 0.44 | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 3 kg/day     |                           |
| Release estimation | Air                   | 0.5 kg/day   |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

#### 7.3.2. Worker exposure Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition (PROC3)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.69 mg/kg bw/day   | 0.058 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.178 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                       |                     |       |               |
|---------------------------------------|---------------------|-------|---------------|
| Inhalation - Acute - systemic effects | 4 mg/m <sup>3</sup> | 0.049 | Measured data |
| Sum RCR - Acute - systemic effects    |                     | 0.049 |               |

#### 7.3.3. Worker exposure Chemical production where opportunity for exposure arises (PROC4)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 1.372 mg/kg bw/day   | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.718 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

#### 7.3.4. Worker exposure Mixing or blending in batch processes (PROC5)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method      |
|-------------------------------------------|----------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |             |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |             |

#### 7.3.5. Worker exposure Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - With LEV (PROC7)

### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:    | RCR    | Method            |
|-------------------------------------------|-----------------------|--------|-------------------|
| Dermal - Long-term - systemic effects     | 8.572 mg/kg bw/day    | 0.726  | TRA Workers       |
| Inhalation - Long-term - systemic effects | 0.4 mg/m <sup>3</sup> | 0.048  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects    |                       | 0.774  |                   |
| Inhalation - Acute - systemic effects     | 0.4 mg/m <sup>3</sup> | < 0.01 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects        |                       | < 0.01 |                   |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7.3.6. Worker exposure Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze - Without LEV (PROC7)

| Information for contributing exposure scenario |                         |        |                   |
|------------------------------------------------|-------------------------|--------|-------------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method            |
| Dermal - Long-term - systemic effects          | 8.572 mg/kg bw/day      | 0.726  | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 0.795 mg/m <sup>3</sup> | 0.096  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                         | 0.822  |                   |
| Inhalation - Acute - systemic effects          | 0.795 mg/m <sup>3</sup> | < 0.01 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |                   |

### 7.3.7. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day   | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.834 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 7.3.8. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day  | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.352 |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 7.3.9. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 1.372 mg/kg bw/day | 0.116 | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m³            | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.718 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m³           | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.243 |             |

### 7.3.10. Worker exposure Handling of liquids on large surfaces or large work pieces (PROC10)

| Information for contributing exposure scenario |                    |       |                   |
|------------------------------------------------|--------------------|-------|-------------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method            |
| Dermal - Long-term - systemic effects          | 5.486 mg/kg bw/day | 0.465 | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 3.59 mg/m³         | 0.433 | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                    | 0.898 |                   |
| Inhalation - Acute - systemic effects          | 3.59 mg/m³         | 0.044 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects             |                    | 0.044 |                   |

### 7.3.11. Worker exposure Treatment of articles by dipping and pouring (PROC13)

| Information for contributing exposure scenario |                    |        |                  |
|------------------------------------------------|--------------------|--------|------------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR    | Method           |
| Dermal - Long-term - systemic effects          | 2.743 mg/kg bw/day | 0.232  | TRA Workers      |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m³        | 0.063  | TRA Workers      |
| Sum RCR - Long-term - systemic effects         |                    | 0.295  |                  |
| Inhalation - Acute - systemic effects          | 0.525 mg/m³        | < 0.01 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects             |                    | < 0.01 |                  |

### 7.3.12. Worker exposure Use as laboratory reagent (PROC15)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 0.34 mg/kg bw/day  | 0.029 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                           |                       |       |             |
|-------------------------------------------|-----------------------|-------|-------------|
| Inhalation - Long-term - systemic effects | 0.5 mg/m <sup>3</sup> | 0.06  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                       | 0.089 |             |
| Inhalation - Acute - systemic effects     | 2 mg/m <sup>3</sup>   | 0.024 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                       | 0.024 |             |

### 7.3.13. Worker exposure Handling of liquids using low pressure, low speed or on medium-sized surfaces (PROC19)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:     | RCR   | Method            |
|-------------------------------------------|------------------------|-------|-------------------|
| Dermal - Long-term - systemic effects     | 7.072 mg/kg bw/day     | 0.599 | TRA Workers       |
| Inhalation - Long-term - systemic effects | 1.74 mg/m <sup>3</sup> | 0.21  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects    |                        | 0.809 |                   |
| Inhalation - Acute - systemic effects     | 1.74 mg/m <sup>3</sup> | 0.021 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects        |                        | 0.021 |                   |

### 7.3.14. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

#### Information for contributing exposure scenario

Exposure estimate: PROC 8a, TRA Workers v3.1

| Route of exposure and type of effects     | Exposure estimate:   | RCR   | Method           |
|-------------------------------------------|----------------------|-------|------------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day   | 0.232 | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects    |                      | 0.834 |                  |
| Inhalation - Acute - systemic effects     | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects        |                      | 0.243 |                  |

### 7.3.15. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:      | RCR   | Method      |
|-------------------------------------------|-------------------------|-------|-------------|
| Dermal - Long-term - systemic effects     | 2.743 mg/kg bw/day      | 0.232 | TRA Workers |
| Inhalation - Long-term - systemic effects | 0.525 mg/m <sup>3</sup> | 0.063 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                        |                         |        |             |
|----------------------------------------|-------------------------|--------|-------------|
| Sum RCR - Long-term - systemic effects |                         | 0.295  |             |
| Inhalation - Acute - systemic effects  | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects     |                         | < 0.01 |             |

### 7.3.16. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

#### Information for contributing exposure scenario

Exposure estimate: PROC 8a, TRA Workers v3.1

| Route of exposure and type of effects     | Exposure estimate:      | RCR    | Method           |
|-------------------------------------------|-------------------------|--------|------------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day      | 0.232  | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects    |                         | 0.295  |                  |
| Inhalation - Acute - systemic effects     | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects        |                         | < 0.01 |                  |

### 7.3.17. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

#### Information for contributing exposure scenario

| Route of exposure and type of effects     | Exposure estimate:      | RCR    | Method      |
|-------------------------------------------|-------------------------|--------|-------------|
| Dermal - Long-term - systemic effects     | 2.742 mg/kg bw/day      | 0.232  | TRA Workers |
| Inhalation - Long-term - systemic effects | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                         | 0.295  |             |
| Inhalation - Acute - systemic effects     | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                         | < 0.01 |             |

## 7.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

### 7.4.1. Environment

No data available

### 7.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8. ES 8 - ES 8 Widespread use by professional workers - Use as additive in intumescent coatings

#### 8.1. Title section

##### ES 8 Widespread use by professional workers - Use as additive in intumescent coatings

ES Ref.: ES 8  
ES Type: Worker

| Environment |                                                                                                                                 | Use descriptors |
|-------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------|
| CS 1        | Widespread use leading to inclusion into/onto article (indoor), Widespread use leading to inclusion into/onto article (outdoor) | ERC8c, ERC8f    |

| Worker |                                                                                                     | Use descriptors |
|--------|-----------------------------------------------------------------------------------------------------|-----------------|
| CS 2   | Mixing or blending in batch processes                                                               | PROC5           |
| CS 3   | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities             | PROC8a          |
| CS 4   | Transfer of substance or mixture (charging and discharging) at dedicated facilities                 | PROC8b          |
| CS 5   | Transfer of substance or mixture into small containers (dedicated filling line, including weighing) | PROC9           |
| CS 6   | Handling of liquids on large surfaces or large work pieces                                          | PROC10          |
| CS 7   | Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze      | PROC11          |
| CS 8   | Treatment of articles by dipping and pouring                                                        | PROC13          |
| CS 9   | Manual maintenance (cleaning and repair) of machinery                                               | PROC28          |

#### 8.2. Conditions of use affecting exposure

##### 8.2.1. Control of environmental exposure: Widespread use leading to inclusion into/onto article (indoor), Widespread use leading to inclusion into/onto article (outdoor) (ERC8c, ERC8f)

|       |                                                                 |
|-------|-----------------------------------------------------------------|
| ERC8c | Widespread use leading to inclusion into/onto article (indoor)  |
| ERC8f | Widespread use leading to inclusion into/onto article (outdoor) |

| Conditions and measures related to sewage treatment plant    |                            |
|--------------------------------------------------------------|----------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 % effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                |
| Controlled application of sewage sludge to agricultural soil | Yes                        |

| Other conditions affecting environmental exposure |              |
|---------------------------------------------------|--------------|
| Receiving surface water flow (m³/day):            | ≥ 18000 m³/d |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.2.2. Control of worker exposure: Mixing or blending in batch processes (PROC5)

|       |                                       |
|-------|---------------------------------------|
| PROC5 | Mixing or blending in batch processes |
|-------|---------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Liquid                  |
| Concentration of substance in product | ≤ 30 %                  |
| Vapour pressure                       | < 0.01 Pa               |
| Dustiness                             | Solid, medium dustiness |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation                                                                                                                    |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

| Other conditions affecting workers exposure |          |
|---------------------------------------------|----------|
| Indoor use                                  |          |
| Assumes process temperature up to           | ≤ 115 °C |

### 8.2.3. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

|        |                                                                                         |
|--------|-----------------------------------------------------------------------------------------|
| PROC8a | Transfer of substance or mixture (charging and discharging) at non-dedicated facilities |
|--------|-----------------------------------------------------------------------------------------|

| Product (article) characteristics     |            |
|---------------------------------------|------------|
| Physical form of product              | Liquid     |
| Concentration of substance in product | ≤ 30 %     |
| Vapour pressure                       | < 0.115 Pa |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                           |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 115 °C |
|-----------------------------------|----------|

#### 8.2.4. Control of worker exposure: Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

|        |                                                                                     |
|--------|-------------------------------------------------------------------------------------|
| PROC8b | Transfer of substance or mixture (charging and discharging) at dedicated facilities |
|--------|-------------------------------------------------------------------------------------|

### Product (article) characteristics

|                          |        |
|--------------------------|--------|
| Physical form of product | Liquid |
|--------------------------|--------|

|                                       |        |
|---------------------------------------|--------|
| Concentration of substance in product | ≤ 30 % |
|---------------------------------------|--------|

|                 |           |
|-----------------|-----------|
| Vapour pressure | < 0.01 Pa |
|-----------------|-----------|

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |  |
|--------------------------------------------------------------------------------|--|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |  |
|--------------------------------------------------------------------------------|--|

|                           |                                              |
|---------------------------|----------------------------------------------|
| Local exhaust ventilation | No. Effectiveness Inhalation: 0%, Dermal: 0% |
|---------------------------|----------------------------------------------|

|                                                                                                                                         |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |  |
|-----------------------------------------------------------------------------------------------------------------------------------------|--|

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                               |                                                                   |
|---------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least: | 80 %<br>For further specification, refer to section 8 of the SDS. |
|---------------------------------------------------------------|-------------------------------------------------------------------|

|                                                                                                                                                                                                          |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|

|                        |                        |
|------------------------|------------------------|
| Respiratory protection | No. Effectiveness : 0% |
|------------------------|------------------------|

### Other conditions affecting workers exposure

|            |  |
|------------|--|
| Indoor use |  |
|------------|--|

|                                   |          |
|-----------------------------------|----------|
| Assumes process temperature up to | ≤ 115 °C |
|-----------------------------------|----------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.2.5. Control of worker exposure: Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

|       |                                                                                                         |
|-------|---------------------------------------------------------------------------------------------------------|
| PROC9 | Transfer of substance or preparation into small containers (dedicated filling line, including weighing) |
|-------|---------------------------------------------------------------------------------------------------------|

| Product (article) characteristics     |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

| Conditions and measures related to personal protection, hygiene and health evaluation |                        |
|---------------------------------------------------------------------------------------|------------------------|
| Respiratory protection                                                                | No. Effectiveness : 0% |
| Protective gloves                                                                     | No. Effectiveness : 0% |

| Other conditions affecting workers exposure |          |
|---------------------------------------------|----------|
| Indoor use                                  |          |
| Assumes process temperature up to           | ≤ 115 °C |

### 8.2.6. Control of worker exposure: Handling of liquids on large surfaces or large work pieces (PROC10)

|        |                                |
|--------|--------------------------------|
| PROC10 | Roller application or brushing |
|--------|--------------------------------|

| Product (article) characteristics     |        |
|---------------------------------------|--------|
| Physical form of product              | Liquid |
| Concentration of substance in product | ≤ 30 % |

| Amount used (or contained in articles), frequency and duration of use/exposure |           |
|--------------------------------------------------------------------------------|-----------|
| Exposure duration                                                              | ≤ 8 h/day |

| Technical and organisational conditions and measures                                                                                    |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide enhanced general ventilation by mechanical means                                                                                |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |
| Ensure regular inspection, cleaning and maintenance of equipment and machines.                                                          |                                              |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Use in room with a volume of minimum 100 m3.                     | 100 - 1000 m3                  |
| Indoor use                                                       |                                |
| Assumes process temperature up to                                | ≤ 115 °C                       |
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |

### 8.2.7. Control of worker exposure: Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze (PROC11)

|        |                         |
|--------|-------------------------|
| PROC11 | Non industrial spraying |
|--------|-------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                                                                         |                                              |
|-----------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour).                                                          |                                              |
| Local exhaust ventilation                                                                                                               | No. Effectiveness Inhalation: 0%, Dermal: 0% |
| Task is followed by a period of evaporation, drying or curing                                                                           |                                              |
| Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision. |                                              |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable respiratory protection. Inhalation - minimum efficiency of                                                                                                                                 | 95 %<br>For further specification, refer to section 8 of the SDS. |
| Wear chemically resistant gloves (tested to EN374) in combination with 'basic' employee training. Efficiency of at least:                                                                                | 90 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |

### Other conditions affecting workers exposure

|                                              |               |
|----------------------------------------------|---------------|
| Indoor use                                   |               |
| Assumes process temperature up to            | ≤ 115 °C      |
| Use in room with a volume of minimum 100 m3. | 100 - 1000 m3 |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Other conditions affecting workers exposure

|                                                                  |                                |
|------------------------------------------------------------------|--------------------------------|
| Distance to task: In the breathing zone of the worker (<1 meter) | < 1 m<br>distance head-product |
|------------------------------------------------------------------|--------------------------------|

### 8.2.8. Control of worker exposure: Treatment of articles by dipping and pouring (PROC13)

|        |                                              |
|--------|----------------------------------------------|
| PROC13 | Treatment of articles by dipping and pouring |
|--------|----------------------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                   |          |
|-----------------------------------|----------|
| Indoor use                        |          |
| Assumes process temperature up to | ≤ 115 °C |

### 8.2.9. Control of worker exposure: Manual maintenance (cleaning and repair) of machinery (PROC28)

|        |                                                       |
|--------|-------------------------------------------------------|
| PROC28 | Manual maintenance (cleaning and repair) of machinery |
|--------|-------------------------------------------------------|

### Product (article) characteristics

|                                       |           |
|---------------------------------------|-----------|
| Physical form of product              | Liquid    |
| Concentration of substance in product | ≤ 30 %    |
| Vapour pressure                       | < 0.01 Pa |

### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

### Technical and organisational conditions and measures

|                                                                                |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Conditions and measures related to personal protection, hygiene and health evaluation

|                                                                                                                                                                                                          |                                                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| Wear suitable gloves tested to EN374. Efficiency of at least:                                                                                                                                            | 80 %<br>For further specification, refer to section 8 of the SDS. |
| If skin contamination is expected to extend to other parts of the body, then these body parts should also be protected with impervious garments in a manner equivalent to those described for the hands. |                                                                   |
| Respiratory protection                                                                                                                                                                                   | No. Effectiveness : 0%                                            |

### Other conditions affecting workers exposure

|                                   |          |
|-----------------------------------|----------|
| Indoor use                        |          |
| Assumes process temperature up to | ≤ 115 °C |

### 8.3. Exposure estimation and reference to its source

#### 8.3.1. Environmental release and exposure Widespread use leading to inclusion into/onto article (indoor), Widespread use leading to inclusion into/onto article (outdoor) (ERC8c, ERC8f)

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Freshwater             | 0.005 mg/l          | 0.51 mg/l       | 0.01   | EUSES 2.2.0       |
| Marine water           | 0.000482 mg/l       | 0.051 mg/l      | 0.01   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.128 mg/kg dwt     | 13.06 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Marine water sediment  | 0.012 mg/kg dwt     | 1.306 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Sewage treatment plant | 0 mg/l              | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0 mg/kg dwt         | 2.312 mg/kg dwt | < 0.01 | EUSES 2.2.0       |

| Release estimation | Release route | Release rate | Release estimation method |
|--------------------|---------------|--------------|---------------------------|
| Release estimation | Water         | 0 kg/day     |                           |
| Release estimation | Air           | 0 kg/day     |                           |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 8.3.2. Worker exposure Mixing or blending in batch processes (PROC5)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day      | 0.232  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.295  |             |
| Inhalation - Acute - systemic effects          | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

### 8.3.3. Worker exposure Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 2.743 mg/kg bw/day      | 0.232  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.295  |             |
| Inhalation - Acute - systemic effects          | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

### 8.3.4. Worker exposure Transfer of substance or mixture (charging and discharging) at dedicated facilities (PROC8b)

| Information for contributing exposure scenario |                         |        |               |
|------------------------------------------------|-------------------------|--------|---------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method        |
| Dermal - Long-term - systemic effects          | 2.742 mg/kg bw/day      | 0.232  | Measured data |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063  | Measured data |
| Sum RCR - Long-term - systemic effects         |                         | 0.295  |               |
| Inhalation - Acute - systemic effects          | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers   |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |               |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.3.5. Worker exposure Transfer of substance or mixture into small containers (dedicated filling line, including weighing) (PROC9)

| Information for contributing exposure scenario |                         |        |             |
|------------------------------------------------|-------------------------|--------|-------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method      |
| Dermal - Long-term - systemic effects          | 6.86 mg/kg bw/day       | 0.581  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                         | 0.644  |             |
| Inhalation - Acute - systemic effects          | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |             |

### 8.3.6. Worker exposure Handling of liquids on large surfaces or large work pieces (PROC10)

| Information for contributing exposure scenario |                        |       |                   |
|------------------------------------------------|------------------------|-------|-------------------|
| Route of exposure and type of effects          | Exposure estimate:     | RCR   | Method            |
| Dermal - Long-term - systemic effects          | 5.486 mg/kg bw/day     | 0.465 | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 3.61 mg/m <sup>3</sup> | 0.435 | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                        | 0.9   |                   |
| Inhalation - Acute - systemic effects          | 3.61 mg/m <sup>3</sup> | 0.044 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects             |                        | 0.044 |                   |

### 8.3.7. Worker exposure Handling of liquids at high pressure resulting in substantial generation of mist or spray/haze (PROC11)

| Information for contributing exposure scenario |                         |        |                   |
|------------------------------------------------|-------------------------|--------|-------------------|
| Route of exposure and type of effects          | Exposure estimate:      | RCR    | Method            |
| Dermal - Long-term - systemic effects          | 10.71 mg/kg bw/day      | 0.908  | TRA Workers       |
| Inhalation - Long-term - systemic effects      | 0.398 mg/m <sup>3</sup> | 0.048  | Stoffenmanager v8 |
| Sum RCR - Long-term - systemic effects         |                         | 0.956  |                   |
| Inhalation - Acute - systemic effects          | 0.398 mg/m <sup>3</sup> | < 0.01 | Stoffenmanager v8 |
| Sum RCR - Acute - systemic effects             |                         | < 0.01 |                   |

### 8.3.8. Worker exposure Treatment of articles by dipping and pouring (PROC13)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.743 mg/kg bw/day | 0.232 | TRA Workers |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Information for contributing exposure scenario

|                                           |                         |        |             |
|-------------------------------------------|-------------------------|--------|-------------|
| Inhalation - Long-term - systemic effects | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers |
| Sum RCR - Long-term - systemic effects    |                         | 0.295  |             |
| Inhalation - Acute - systemic effects     | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers |
| Sum RCR - Acute - systemic effects        |                         | < 0.01 |             |

### 8.3.9. Worker exposure Manual maintenance (cleaning and repair) of machinery (PROC28)

### Information for contributing exposure scenario

Exposure estimate: PROC 8a, TRA Workers v3.1

| Route of exposure and type of effects     | Exposure estimate:      | RCR    | Method           |
|-------------------------------------------|-------------------------|--------|------------------|
| Dermal - Long-term - systemic effects     | 2.743 mg/kg bw/day      | 0.232  | TRA Workers v3.1 |
| Inhalation - Long-term - systemic effects | 0.525 mg/m <sup>3</sup> | 0.063  | TRA Workers v3.1 |
| Sum RCR - Long-term - systemic effects    |                         | 0.295  |                  |
| Inhalation - Acute - systemic effects     | 0.525 mg/m <sup>3</sup> | < 0.01 | TRA Workers v3.1 |
| Sum RCR - Acute - systemic effects        |                         | < 0.01 |                  |

### 8.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 8.4.1. Environment

No data available

#### 8.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 9. ES 9 - ES 9 Service life - workers - PU foams - Workers (industrial)

#### 9.1. Title section

##### ES 9 Service life - workers - PU foams - Workers (industrial)

ES Ref.: ES 9  
ES Type: Worker

| Environment |                                                             | Use descriptors |
|-------------|-------------------------------------------------------------|-----------------|
| CS 1        | Processing of articles at industrial sites with low release | ERC12a          |

| Worker |                                                                                      | Use descriptors |
|--------|--------------------------------------------------------------------------------------|-----------------|
| CS 2   | Low energy manipulation and handling of substances bound in/on materials or articles | PROC21          |
| CS 2   | High (mechanical) energy work-up of substances bound in/on materials and/or articles | PROC24          |

#### 9.2. Conditions of use affecting exposure

##### 9.2.1. Control of environmental exposure: Processing of articles at industrial sites with low release (ERC12a)

|        |                                                             |
|--------|-------------------------------------------------------------|
| ERC12a | Processing of articles at industrial sites with low release |
|--------|-------------------------------------------------------------|

| Conditions and measures related to sewage treatment plant    |                            |
|--------------------------------------------------------------|----------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 % effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                |
| Controlled application of sewage sludge to agricultural soil | Yes                        |

##### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

##### 9.2.2. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials or articles (PROC21)

|        |                                                                                      |
|--------|--------------------------------------------------------------------------------------|
| PROC21 | Low energy manipulation and handling of substances bound in/on materials or articles |
|--------|--------------------------------------------------------------------------------------|

| Product (article) characteristics     |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

##### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

| Technical and organisational conditions and measures                           |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection No. Effectiveness : 0%

Protective gloves No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

### 9.2.3. Control of worker exposure: High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

PROC24 High (mechanical) energy work-up of substances bound in/on materials and/or articles

### Product (article) characteristics

Physical form of product Solid

Concentration of substance in product ≤ 100 %

Dustiness Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration ≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection No. Effectiveness : 0%

Protective gloves No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

### 9.3. Exposure estimation and reference to its source

#### 9.3.1. Environmental release and exposure Processing of articles at industrial sites with low release (ERC12a)

| Protection target | Exposure estimation | PNEC      | RCR  | Assessment method |
|-------------------|---------------------|-----------|------|-------------------|
| Freshwater        | 0.005 mg/l          | 0.51 mg/l | 0.01 | EUSES 2.2.0       |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Marine water           | 0.000387 mg/l       | 0.051 mg/l      | 0.01   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.128 mg/kg dwt     | 13.06 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Marine water sediment  | 0.0099 mg/kg dwt    | 1.306 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Sewage treatment plant | 0 mg/l              | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0 mg/kg dwt         | 2.312 mg/kg dwt | < 0.01 | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 0 kg/day     |                           |
| Release estimation | Air                   | 0 kg/day     |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 9.3.2. Worker exposure Low energy manipulation and handling of substances bound in/on materials or articles (PROC21)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.83 mg/kg bw/day  | 0.24  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 3 mg/m³            | 0.361 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.601 |             |
| Inhalation - Acute - systemic effects          | 12 mg/m³           | 0.146 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.146 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 9.3.3. Worker exposure High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

| Information for contributing exposure scenario |                     |       |             |
|------------------------------------------------|---------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:  | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.83 mg/kg bw/day   | 0.24  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m <sup>3</sup> | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                     | 0.36  |             |
| Inhalation - Acute - systemic effects          | 4 mg/m <sup>3</sup> | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                     | 0.049 |             |

### 9.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 9.4.1. Environment

No data available

#### 9.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 10. ES 10 - ES 10 Service life - workers - Intumescent coatings - Workers (industrial)

#### 10.1. Title section

##### ES 10 Service life - workers - Intumescent coatings - Workers (industrial)

ES Ref.: ES 10  
ES Type: Worker

| Environment |                                                             | Use descriptors |
|-------------|-------------------------------------------------------------|-----------------|
| CS 1        | Processing of articles at industrial sites with low release | ERC12a          |

| Worker |                                                                                      | Use descriptors |
|--------|--------------------------------------------------------------------------------------|-----------------|
| CS 2   | Low energy manipulation and handling of substances bound in/on materials or articles | PROC21          |
| CS 2   | High (mechanical) energy work-up of substances bound in/on materials and/or articles | PROC24          |

#### 10.2. Conditions of use affecting exposure

##### 10.2.1. Control of environmental exposure: Processing of articles at industrial sites with low release (ERC12a)

|        |                                                             |
|--------|-------------------------------------------------------------|
| ERC12a | Processing of articles at industrial sites with low release |
|--------|-------------------------------------------------------------|

##### Conditions and measures related to sewage treatment plant

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 % effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                |
| Controlled application of sewage sludge to agricultural soil | Yes                        |

##### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

##### 10.2.2. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials or articles (PROC21)

|        |                                                                                      |
|--------|--------------------------------------------------------------------------------------|
| PROC21 | Low energy manipulation and handling of substances bound in/on materials or articles |
|--------|--------------------------------------------------------------------------------------|

##### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

##### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

##### Technical and organisational conditions and measures

|                                                                                |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection No. Effectiveness : 0%

Protective gloves No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

#### 10.2.3. Control of worker exposure: High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

PROC24 High (mechanical) energy work-up of substances bound in/on materials and/or articles

### Product (article) characteristics

Physical form of product Solid

Concentration of substance in product ≤ 100 %

Dustiness Solid, medium dustiness

### Amount used (or contained in articles), frequency and duration of use/exposure

Exposure duration ≤ 8 h/day

### Technical and organisational conditions and measures

Provide a basic standard of general ventilation (1 to 3 air changes per hour).

Local exhaust ventilation No. Effectiveness Inhalation: 0%, Dermal: 0%

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection No. Effectiveness : 0%

Protective gloves No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

#### 10.3. Exposure estimation and reference to its source

##### 10.3.1. Environmental release and exposure Processing of articles at industrial sites with low release (ERC12a)

| Protection target | Exposure estimation | PNEC      | RCR  | Assessment method |
|-------------------|---------------------|-----------|------|-------------------|
| Freshwater        | 0.005 mg/l          | 0.51 mg/l | 0.01 | EUSES 2.2.0       |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Marine water           | 0.000482 mg/l       | 0.051 mg/l      | 0.01   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.128 mg/kg dwt     | 13.06 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Marine water sediment  | 0.012 mg/kg dwt     | 1.306 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Sewage treatment plant | 0 mg/l              | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0 mg/kg dwt         | 2.312 mg/kg dwt | < 0.01 | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 0 kg/day     |                           |
| Release estimation | Air                   | 0 kg/day     |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 10.3.2. Worker exposure Low energy manipulation and handling of substances bound in/on materials or articles (PROC21)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.83 mg/kg bw/day  | 0.24  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 3 mg/m³            | 0.361 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.601 |             |
| Inhalation - Acute - systemic effects          | 12 mg/m³           | 0.146 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.146 |             |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

10.3.3. Worker exposure High (mechanical) energy work-up of substances bound in/on materials and/or articles (PROC24)

| Information for contributing exposure scenario |                    |       |             |
|------------------------------------------------|--------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate: | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.83 mg/kg bw/day  | 0.24  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 1 mg/m³            | 0.12  | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                    | 0.36  |             |
| Inhalation - Acute - systemic effects          | 4 mg/m³            | 0.049 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                    | 0.049 |             |

10.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

10.4.1. Environment

No data available

10.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 11. ES 11 - ES 11 Service life - workers - Intumescent coatings - Professional Workers

#### 11.1. Title section

##### ES 11 Service life - workers - Intumescent coatings - Professional Workers

ES Ref.: ES 11  
ES Type: Worker

| Environment |                                                                                                             | Use descriptors |
|-------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| CS 1        | Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) | ERC10a, ERC11a  |

| Worker |                                                                                      | Use descriptors |
|--------|--------------------------------------------------------------------------------------|-----------------|
| CS 2   | Low energy manipulation and handling of substances bound in/on materials or articles | PROC21          |

#### 11.2. Conditions of use affecting exposure

##### 11.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) (ERC10a, ERC11a)

|        |                                                       |
|--------|-------------------------------------------------------|
| ERC10a | Widespread use of articles with low release (outdoor) |
| ERC11a | Widespread use of articles with low release (indoor)  |

##### Conditions and measures related to sewage treatment plant

|                                                              |                            |
|--------------------------------------------------------------|----------------------------|
| Municipal Sewage Treatment Plant                             | 2.77 % effectiveness water |
| Discharge of sewage treatment plant (STP)                    | ≥ 2000 m³/d                |
| Controlled application of sewage sludge to agricultural soil | Yes                        |

##### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

##### 11.2.2. Control of worker exposure: Low energy manipulation and handling of substances bound in/on materials or articles (PROC21)

|        |                                                                                      |
|--------|--------------------------------------------------------------------------------------|
| PROC21 | Low energy manipulation and handling of substances bound in/on materials or articles |
|--------|--------------------------------------------------------------------------------------|

##### Product (article) characteristics

|                                       |                         |
|---------------------------------------|-------------------------|
| Physical form of product              | Solid                   |
| Concentration of substance in product | ≤ 100 %                 |
| Dustiness                             | Solid, medium dustiness |

##### Amount used (or contained in articles), frequency and duration of use/exposure

|                   |           |
|-------------------|-----------|
| Exposure duration | ≤ 8 h/day |
|-------------------|-----------|

##### Technical and organisational conditions and measures

|                                                                                |                                              |
|--------------------------------------------------------------------------------|----------------------------------------------|
| Provide a basic standard of general ventilation (1 to 3 air changes per hour). |                                              |
| Local exhaust ventilation                                                      | No. Effectiveness Inhalation: 0%, Dermal: 0% |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### Technical and organisational conditions and measures

Assumes that activities are undertaken with appropriate and well maintained equipment by trained personnel operating under supervision.

### Conditions and measures related to personal protection, hygiene and health evaluation

Respiratory protection No. Effectiveness : 0%

Protective gloves No. Effectiveness : 0%

### Other conditions affecting workers exposure

Indoor use

Assumes process temperature up to 40 °C

### 11.3. Exposure estimation and reference to its source

11.3.1. Environmental release and exposure Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) (ERC10a, ERC11a)

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Freshwater             | 0.005 mg/l          | 0.51 mg/l       | 0.01   | EUSES 2.2.0       |
| Marine water           | 0.000482 mg/l       | 0.051 mg/l      | 0.01   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.128 mg/kg dwt     | 13.06 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Marine water sediment  | 0.012 mg/kg dwt     | 1.306 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Sewage treatment plant | 0 mg/l              | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0 mg/kg bw/day      | 2.312 mg/kg dwt | < 0.01 | EUSES 2.2.0       |

| Release estimation | Release route | Release rate | Release estimation method |
|--------------------|---------------|--------------|---------------------------|
| Release estimation | Water         | 0 kg/day     |                           |
| Release estimation | Air           | 0 kg/day     |                           |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 11.3.2. Worker exposure Low energy manipulation and handling of substances bound in/on materials or articles (PROC21)

| Information for contributing exposure scenario |                      |       |             |
|------------------------------------------------|----------------------|-------|-------------|
| Route of exposure and type of effects          | Exposure estimate:   | RCR   | Method      |
| Dermal - Long-term - systemic effects          | 2.83 mg/kg bw/day    | 0.24  | TRA Workers |
| Inhalation - Long-term - systemic effects      | 5 mg/m <sup>3</sup>  | 0.602 | TRA Workers |
| Sum RCR - Long-term - systemic effects         |                      | 0.842 |             |
| Inhalation - Acute - systemic effects          | 20 mg/m <sup>3</sup> | 0.243 | TRA Workers |
| Sum RCR - Acute - systemic effects             |                      | 0.243 |             |

### 11.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 11.4.1. Environment

No data available

#### 11.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12. ES 12 - ES 12 Service life - consumers - PU foams – Consumers

#### 12.1. Title section

##### ES 12 Service life - consumers - PU foams – Consumers

ES Ref.: ES 12  
ES Type: Consumer

| Environment |                                                                                                             | Use descriptors |
|-------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| CS 1        | Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) | ERC10a, ERC11a  |

| Consumer |                                                                                                                                                                        | Use descriptors        |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| CS 2.1   | Vehicles, Vehicles covered by End of Life Vehicles (ELV) directive, Plastic articles, Plastic articles: Furniture & furnishings, including furniture coverings, Babies | AC1, AC1a, AC13, AC13e |
| CS 2.2   | Vehicles, Vehicles covered by End of Life Vehicles (ELV) directive, Plastic articles, Plastic articles: Furniture & furnishings, including furniture coverings, Adult  | AC1, AC1a, AC13, AC13e |

#### 12.2. Conditions of use affecting exposure

##### 12.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) (ERC10a, ERC11a)

|        |                                                       |
|--------|-------------------------------------------------------|
| ERC10a | Widespread use of articles with low release (outdoor) |
| ERC11a | Widespread use of articles with low release (indoor)  |

##### Other conditions affecting environmental exposure

|                                        |              |
|----------------------------------------|--------------|
| Receiving surface water flow (m³/day): | ≥ 18000 m³/d |
|----------------------------------------|--------------|

##### 12.2.2. Control of consumer exposure: Vehicles, Vehicles covered by End of Life Vehicles (ELV) directive, Plastic articles, Plastic articles: Furniture & furnishings, including furniture coverings, Babies (AC1, AC1a, AC13, AC13e)

|       |                                                                          |
|-------|--------------------------------------------------------------------------|
| AC1   | Vehicles                                                                 |
| AC1a  | Vehicles covered by End of Life Vehicles (ELV) directive                 |
| AC13  | Plastic articles                                                         |
| AC13e | Plastic articles: Furniture & furnishings, including furniture coverings |

##### Product (article) characteristics

|                                       |        |
|---------------------------------------|--------|
| Concentration of substance in product | ≤ 30 % |
|---------------------------------------|--------|

##### Other conditions affecting consumer exposure

|                                                       |  |
|-------------------------------------------------------|--|
| Inhalation exposure is considered to be not relevant. |  |
| Oral exposure is considered to be not relevant.       |  |

##### 12.2.3. Control of consumer exposure: Vehicles, Vehicles covered by End of Life Vehicles (ELV) directive, Plastic articles, Plastic articles: Furniture & furnishings, including furniture coverings, Adult (AC1, AC1a, AC13, AC13e)

|      |                                                          |
|------|----------------------------------------------------------|
| AC1  | Vehicles                                                 |
| AC1a | Vehicles covered by End of Life Vehicles (ELV) directive |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

|       |                                                                          |
|-------|--------------------------------------------------------------------------|
| AC13  | Plastic articles                                                         |
| AC13e | Plastic articles: Furniture & furnishings, including furniture coverings |

### Product (article) characteristics

|                                       |        |
|---------------------------------------|--------|
| Concentration of substance in product | ≤ 30 % |
|---------------------------------------|--------|

### Other conditions affecting consumer exposure

|                                                       |  |
|-------------------------------------------------------|--|
| Inhalation exposure is considered to be not relevant. |  |
| Oral exposure is considered to be not relevant.       |  |

### 12.3. Exposure estimation and reference to its source

#### 12.3.1. Environmental release and exposure Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) (ERC10a, ERC11a)

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Freshwater             | 0.005 mg/l          | 0.51 mg/l       | 0.01   | EUSES 2.2.0       |
| Marine water           | 0.000482 mg/l       | 0.051 mg/l      | 0.01   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.128 mg/kg dwt     | 13.06 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Marine water sediment  | 0.012 mg/kg dwt     | 1.306 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Sewage treatment plant | 0 mg/l              | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0 mg/kg dwt         | 2.312 mg/kg dwt | < 0.01 | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 0 kg/day     |                           |
| Release estimation | Air                   | 0 kg/day     |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12.3.2. Consumer exposure Vehicles, Vehicles covered by End of Life Vehicles (ELV) directive, Plastic articles, Plastic articles: Furniture & furnishings, including furniture coverings, Babies (AC1, AC1a, AC13, AC13e)

| Information for contributing exposure scenario                                                        |                     |       |                                  |
|-------------------------------------------------------------------------------------------------------|---------------------|-------|----------------------------------|
| Inhalation exposure is considered to be not relevant, Oral exposure is considered to be not relevant. |                     |       |                                  |
| Route of exposure and type of effects                                                                 | Exposure estimate:  | RCR   | Method                           |
| Dermal - Long-term - systemic effects                                                                 | 0.1484 mg/kg bw/day | 0.035 | Babies, Based on migration study |
| Sum RCR - Long-term - systemic effects                                                                |                     | 0.035 |                                  |

### 12.3.3. Consumer exposure Vehicles, Vehicles covered by End of Life Vehicles (ELV) directive, Plastic articles, Plastic articles: Furniture & furnishings, including furniture coverings, Adult (AC1, AC1a, AC13, AC13e)

| Information for contributing exposure scenario                                                        |                      |       |                                 |
|-------------------------------------------------------------------------------------------------------|----------------------|-------|---------------------------------|
| Inhalation exposure is considered to be not relevant, Oral exposure is considered to be not relevant. |                      |       |                                 |
| Route of exposure and type of effects                                                                 | Exposure estimate:   | RCR   | Method                          |
| Dermal - Long-term - systemic effects                                                                 | 0.06375 mg/kg bw/day | 0.015 | Adult, Based on migration study |
| Sum RCR - Long-term - systemic effects                                                                |                      | 0.015 |                                 |

### 12.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 12.4.1. Environment

No data available

#### 12.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 13. ES 13 - ES 13 Service life - consumers - Intumescent coating – Consumers

#### 13.1. Title section

##### ES 13 Service life - consumers - Intumescent coating – Consumers

ES Ref.: ES 13  
ES Type: Consumer

| Environment |                                                                                                             | Use descriptors |
|-------------|-------------------------------------------------------------------------------------------------------------|-----------------|
| CS 1        | Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) | ERC10a, ERC11a  |

| Consumer |                  | Use descriptors |
|----------|------------------|-----------------|
| CS 2     | Plastic articles | AC13            |

#### 13.2. Conditions of use affecting exposure

##### 13.2.1. Control of environmental exposure: Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) (ERC10a, ERC11a)

|        |                                                       |
|--------|-------------------------------------------------------|
| ERC10a | Widespread use of articles with low release (outdoor) |
| ERC11a | Widespread use of articles with low release (indoor)  |

##### Other conditions affecting environmental exposure

Receiving surface water flow (m³/day):  $\geq 18000 \text{ m}^3/\text{d}$

##### 13.2.2. Control of consumer exposure: Plastic articles (AC13)

|      |                  |
|------|------------------|
| AC13 | Plastic articles |
|------|------------------|

#### Product (article) characteristics

|                                       |              |
|---------------------------------------|--------------|
| Physical form of product              | Solid        |
| Concentration of substance in product | $\leq 30 \%$ |

#### Other conditions affecting consumer exposure

|                                                       |  |
|-------------------------------------------------------|--|
| Inhalation exposure is considered to be not relevant. |  |
| Oral exposure is considered to be not relevant.       |  |
| Dermal exposure is considered to be not relevant      |  |

#### 13.3. Exposure estimation and reference to its source

##### 13.3.1. Environmental release and exposure Widespread use of articles with low release (outdoor), Widespread use of articles with low release (indoor) (ERC10a, ERC11a)

| Protection target | Exposure estimation | PNEC      | RCR  | Assessment method |
|-------------------|---------------------|-----------|------|-------------------|
| Freshwater        | 0.005 mg/l          | 0.51 mg/l | 0.01 | EUSES 2.2.0       |

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

| Protection target      | Exposure estimation | PNEC            | RCR    | Assessment method |
|------------------------|---------------------|-----------------|--------|-------------------|
| Marine water           | 0.000482 mg/l       | 0.051 mg/l      | 0.01   | EUSES 2.2.0       |
| Secondary poisoning    |                     |                 | < 0.01 | EUSES 2.2.0       |
| Freshwater sediment    | 0.128 mg/kg dwt     | 13.06 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Marine water sediment  | 0.012 mg/kg dwt     | 1.306 mg/kg dwt | 0.01   | EUSES 2.2.0       |
| Sewage treatment plant | 0 mg/l              | 100 mg/l        | < 0.01 | EUSES 2.2.0       |
| Soil                   | 0 mg/kg dwt         | 2.312 mg/kg dwt | < 0.01 | EUSES 2.2.0       |

| Release estimation | Release route         | Release rate | Release estimation method |
|--------------------|-----------------------|--------------|---------------------------|
| Release estimation | Water                 | 0 kg/day     |                           |
| Release estimation | Air                   | 0 kg/day     |                           |
| Release estimation | Non-agricultural soil | 0 %          |                           |

### 13.3.2. Consumer exposure Plastic articles (AC13)

| Information for contributing exposure scenario                                                                                    |                     |        |        |
|-----------------------------------------------------------------------------------------------------------------------------------|---------------------|--------|--------|
| Inhalation exposure is considered to be not relevant, Oral exposure is considered to be not relevant, Dermal exposure: Negligible |                     |        |        |
| Route of exposure and type of effects                                                                                             | Exposure estimate:  | RCR    | Method |
| Oral - Long-term - systemic effects                                                                                               | 0 mg/kg bw/day      | < 0.01 |        |
| Dermal - Long-term - systemic effects                                                                                             | 0 mg/kg bw/day      | < 0.01 |        |
| Inhalation - Long-term - systemic effects                                                                                         | 0 mg/m <sup>3</sup> | < 0.01 |        |
| Sum RCR - Long-term - systemic effects                                                                                            |                     | < 0.03 |        |

### 13.4. Guidance to Downstream User to evaluate whether he works inside the boundaries set by the ES

#### 13.4.1. Environment

No data available

# Melamine

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 13.4.2. Health

|                   |                                                                                                                                                                                                                                                                                                                                                                                           |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Guidance - Health | Guidance is based on assumed operating conditions which may not be applicable to all sites; thus, scaling may be necessary to define appropriate site-specific risk management measures. Where other Risk Management Measures/Operational Conditions are adopted, then users should ensure that risks are managed to at least equivalent levels. Contact supplier if guidance is required |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|