

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 10/10/2025 Supersedes: 2/20/2024 Version: 5.2

SECTION 1: Identification

1.1. Identification

Product form : Substance
Name : Melamine

Trade name : MelaminebyOCITM GPH

MelaminebyOCITM SLP

Melafine®

MelaminebyOCITM Novo GPH MelaminebyOCITM Novo SLP

Melafine® Novo

IUPAC name : 1,3,5-Triazine-2,4,6-triamine

CAS-No. : 108-78-1 Formula : $C_3H_6N_6$

Synonyms : Cyanuramide; Cyanurotriamide; 2,4,6-Triamino-s-triazine

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Industrial use

White crystalline powder, used in high performance products like wood-based panels, laminates,

coatings, molding powders, concrete plasticizers and flame retardants

Restrictions on use : Addition to food or feed products

1.3. Supplier

Supplier

OCI Nitrogen B.V. 1 Poststraat Sittard, 6135 KR The Netherlands T +31 (0) 46 7020205

info.melamine@oci-global.com - www.oci-global.com

1.4. Emergency telephone number

Emergency number : Chemtrec: +1-800-424-9300 (24/7) & Alert & Care Centre Chemelot (Geleen, The Netherlands):

+31 (0) 46 4765555 (24/7)

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Carcinogenicity, Category 2 Suspected of causing cancer.

Reproductive toxicity, Category 2 Suspected of damaging fertility.

Specific target organ toxicity — Repeated exposure, May cause damage to organs (urinary tract) through prolonged or repeated exposure.

Category 2

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

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Hazard statements (GHS US) : Suspected of causing cancer

Suspected of damaging fertility

May cause damage to organs (urinary tract) through prolonged or repeated exposure

Precautionary statements (GHS US) : Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Do not breathe dust.

Wear protective gloves, protective clothing, eye protection, face protection.

If exposed or concerned: Get medical advice/attention.

Store locked up

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 which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

 Name
 : Melamine

 CAS-No.
 : 108-78-1

Name	Product identifier	Conc. (% w/w)
1,3,5-Triazine-2,4,6-triamine	CAS-No.: 108-78-1	100

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures

Not applicable

SECTION 4: First-aid measures

4.1. Description of first aid measures

First-aid measures general

First-aid measures after inhalation

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

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: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing stops, give artificial respiration. Get medical attention immediately 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.

4.2. Most important symptoms and effects (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. Immediate medical attention and special treatment, if necessary

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

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SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

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

5.2. Specific hazards arising from the chemical

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. Special protective equipment and precautions for fire-fighters

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

Section 1, 8, 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.

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.

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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-ignition : 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Melamine (108-78-1)

No additional information available

USA - ACGIH - Occupational Exposure Limits

Local name Reference value: EU REACH - Derived No Effect Level (DNEL) - Worker - Long-term -

systemic effects, inhalation: 8.3 mg/m³

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

No additional information available

8.2. 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.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective 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.

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.

Туре	Material	Permeation	Thickness (mm)	Penetration
Protective gloves	Chloroprene rubber (CR), butyl rubber, Polyvinylchloride (PVC)	6 (> 480 minutes)	0.5	
Protective gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	0.35	
Protective gloves	Fluoroelastomer (FKM)	6 (> 480 minutes)	0.4	

Eye protection:

Туре	Use	Characteristics
Safety glasses with side shields	Dust	

Skin and body protection:

Wear suitable protective clothing

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Long sleeved protective clothing

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Device	Filter type	Condition
Dust mask	Type FFP2	Dust protection

Personal protective equipment symbol(s):







SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Crystalline powder

Color : White

Odor : Odorless Ammoniacal slight

Odor threshold : No data available

pH : 7.8 – 9.5 (10% aqueous suspension)

Melting point : 669 °F (with vaporization)

Freezing point : Not applicable
Boiling point : > 536 °F Decomposes
Flash point : > 536 °F (closed cup)
Relative evaporation rate (butyl acetate=1) : No data available
Flammability (solid, gas) : Not flammable

Vapor pressure : < 0.02 kPa (@ 20°C / 68°F)

Relative vapor density at 20°C : 4.34 (air = 1)

Particle size distribution : Available on request

Relative density : 1.57 (@ 20°C / 68°F)

Density : 1.57 g/cm³

Density : 1.57 g/cm³

Molecular mass : 126.12 g/mol

Solubility : Slightly soluble.

Water: 0.348 g/100ml (@ 20°C / 68°F)

Partition coefficient n-octanol/water (Log Pow) : -1.22 (@ 20°C / 68°F)

Auto-ignition temperature : > 932 °F

Decomposition temperature : > 536 °F

Viscosity, kinematic : Not applicable

Viscosity, dynamic : No data available

Explosion limits : Not applicable

Explosive properties : Not explosive

Oxidizing properties : Non oxidizing material

9.2. Other information

Other properties : Ignition temperature: ≥ 658 °C / 1216.4 °F.

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SECTION 10: Stability and reactivity

10.1. Reactivity

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

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 vapors. 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 toxicological effects

: Not classified Acute toxicity (oral) 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 body weight
LC50 Inhalation - Rat	> 5.19 mg/l/4h (OECD 403 method)
Skin corrosion/irritation	Not classified

pH: 7.8 – 9.5 (10% aqueous suspension)

: Not classified

Serious eye damage/irritation pH: 7.8 - 9.5 (10% aqueous suspension)

Respiratory or skin sensitization 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	
National Toxicity Program (NTP) Status	Evidence of Carcinogenicity	
In OSHA Hazard Communication Carcinogen list	Yes	
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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 body weight Fertility

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1,3,5-Triazine-2,4,6-triamine (108-78-1)		
NOAEL (animal/male, F1)	89 mg/kg body weight Fertility	
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	
Viscosity, kinematic	: Not applicable	
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. 	

SECTION 12: Ecological information

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Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

1,3,5-Triazine-2,4,6-triamine (108-78-1)	
LC50 fish 1	> 3000 mg/l Oncorhynchus mykiss
EC50 Daphnia 1	200 mg/l Daphnia magna
EC50 96h - Algae [1]	325 mg/l Pseudokirchneriella subcapitata
NOEC chronic fish	≥ 5.1 mg/l Pimephales promelas (36d), OECD Guideline 210
NOEC chronic crustacea	≥ 11 mg/l (21d) Daphnia magna
NOEC chronic algae	98 mg/l Species: Pseudokirchneriella subcapitata
NOEC, microorganisms	2000 mg/l

12.2. Persistence and degradability

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 / 68°F)	
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

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12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Disposal 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 DOT / TDG / IMDG / IATA

DOT	TDG	IMDG	IATA	
14.1. UN number				
Not regulated for transport				
14.2. Proper Shipping Name				
Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	
No supplementary information available				

14.6. Special precautions for user

DOT

No data available

TDG

No data available

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. US Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
1,3,5-Triazine-2,4,6-triamine	108-78-1	Present	Active	

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

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

Listed on IARC (International Agency for Research on Cancer)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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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.

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
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

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Abbreviations and acronyms	
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	Organization for Economic Co-operation and Development
STP	Sewage treatment plant
CAS-No.	Chemical Abstract Service number
NOAEL	No-Observed Adverse Effect Level

Indication of changes:

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

SDS US (GHS HazCom 2012) - RHDHV

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.