

Safety Data Sheet

according to the Hazardous Products Regulation (February 11, 2015) Revision date: 2/20/2024 Supersedes: 8/7/2023 Version: 2.1

SECTION 1: Identification

1.1. Product identifier	
Product form Name Trade name	 Substance Melamine MelaminebyOCITM GPH MelaminebyOCITM GPH LD
	MelaminebyOCITM SLP Melafine® Bio MelaminebyOCITM GPH Bio MelaminebyOCITM SLP Bio Melafine®
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

Recommended use

Restrictions on use

Industrial use, White crystalline powder, used in high performance products like wood-based panels, laminates, coatings, molding powders, concrete plasticizers and flame retardants
 Addition to food or feed products

1.3. Supplier

Supplier	Supplier
OCI Nitrogen B.V.	OCI Melamine Americas, Inc.
1 Poststraat	C/O Advanced Louisiana Logistics
Sittard, 6135 KR	8550 United Plaza Drive, Suite 702
The Netherlands	Baton Rouge, LA 70809
T +31 (0) 46 7020205	USA
info.melamine@oci-global.com - www.oci-global.com	T +1 (225) 685 30 20 / 685 30 37 - F +1 (225) 685 30 03
Supplier	
OCI Trading Shanghai	
17N, Feizhou Guoji Building	
No. 899 Lingling Road	
Shanghai, 200030	

1.4. Emergency telephone number

T +86 (0)21 64415441 - F +86 (0)21 64415440

Emergency number

China

: Chemtrec: +1-800-424-9300 (24/7) & Alert & Care Centre Chemelot (Geleen, The Netherlands): +31 (0) 46 4765555 (24/7)

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification (GHS CA)

Carcinogenicity, Category 2 Reproductive toxicity, Category 2 Specific target organ toxicity – Repeated exposure, Category 2

Full text of H-statements: see section 16

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

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2.2. GHS Label elements, including precautionary statements

GHS CA labelling

Hazard pictograms (GHS CA)

Signal word (GHS CA)	: Warning
Hazard statements (GHS CA)	: Suspected of causing cancer. Suspected of damaging fertility. May cause damage to organs (urinary tract) through prolonged or repeated exposure.
Precautionary statements (GHS CA)	 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	

No additional information available

2.4. Unknown acute toxicity (GHS CA)

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Name	:	Melamine
CAS-No.	:	108-78-1
EC-No.	:	203-615-4

Name	Chemical name/Synony ms	Product identifier	Conc. (% w/w)	Classification (GHS CA)
1,3,5-Triazine-2,4,6-triamine	Cyanuramide; Cyanurotriamide; 2,4,6-Triamino-s- triazine	CAS-No.: 108-78-1	100	Carc. 2, H351 Repr. 2, H361 STOT RE 2, H373

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

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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.
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
4.2. Most important symptoms and effects	(acute and delayed)
Symptoms/effects after inhalation Symptoms/effects after eve contact	 Dust from this product may cause irritation to the respiratory tract. Dust from this product may cause eve irritation.
Chronic symptoms	 But non this product may cause cyc initiation. May damage fertility. Suspected carcinogen. May cause damage to organs (urinary tract) through prolonged or repeated exposure.
4.3. Immediate medical attention and speci	al treatment, if necessary
Other medical advice or treatment	: Treat symptomatically. Hazardous decomposition products in case of fire. Symptoms may be

delayed. Consult an expert.

SECTION 5: Fire-fighting measures				
5.1. Suitable extinguishing media				
Suitable extinguishing media	: Water spray. Dry powder. Foam.			
5.2. Unsuitable extinguishing media				
No additional information available				
5.3. Specific hazards arising from the hazardous product				
Fire hazard Hazardous decomposition products in case of fire	 The product is not flammable. Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Amines, Nitrogen oxides, Ammonia, Hydrogen cyanide > 600°C / 1112°F. 			
5.4. 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 equipme	ent and emergency procedures				
Personal Precautions, Protective Equipment and : 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. Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".				
6.2. Methods and materials for containment and 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. Dispose of waste product or used containers according to local regulations. Dispose of materials or solid residues at an authorized site.				

6.3. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection"

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SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling Hygiene measures	 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. 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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Melamine (108-78-1)			
Canada (British Columbia) - Occupational Exposure Limits			
Local name	All provinces; Reference value: EU REACH - Derived No Effect Level (DNEL) - Worker - Long- term - systemic effects, inhalation: 8.3 mg/m ³		
1,3,5-Triazine-2,4,6-triamine (108-78-1)			
Canada (British Columbia) - Occupational Exposure Limits			
Notations and remarks	IARC group 2B carcinogen		
Regulatory reference	OHS Guidelines Part 5: Chemical Agents and Biological Agents (WorkSafe BC)		
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.

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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:		
Wear eye protection		
Туре	Use	Characteristics
Safety glasses with side shields	Dust	

Skin and body protection:	
Wear suitable protective clothing	
Туре	
Long sleeved protective clothing	

Respiratory protection:

In case of inadequate ventilation wear respiratory protection.

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Appearance Colour Odour Odour threshold pH Relative evaporation rate (butylacetate=1) Relative evaporation rate (ether=1) Molecular mass Melting point Freezing point	 Solid Crystalline powder. White Odourless Ammoniacal slight No data available 7.8 – 9.5 (10% aqueous suspension) No data available No data available 126.12 g/mol 354 °C (with vaporization) Not applicable
pH	: 7.8 – 9.5 (10% aqueous suspension)
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Molecular mass	: 126.12 g/mol
Melting point	: 354 °C (with vaporization)
Freezing point	: Not applicable
Boiling point	: > 280 °C Decomposes
Flash point	: > 280 °C (closed cup)
Auto-ignition temperature	: > 500 °C
Decomposition temperature	: > 280 °C
Flammability (solid, gas)	: Not flammable
Vapour pressure	: < 0.02 kPa (@ 20°C / 68°F)

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Relative vapour density at 20°C	: 4.34 (air = 1)
Relative density	: 1.57 (@ 20°C / 68°F)
Density	: 1.57 g/cm ³
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)
Viscosity, kinematic	: Not applicable
Explosive properties	: Not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: Not applicable
Particle size distribution	: Available on request
0.0. Others information	
9.2. Other information	

Other properties

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

SECTION 10: Stability and reactivi	ity
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: No dangerous reactions known under normal conditions of use.
Conditions to avoid	: Keep away from heat. Keep away from any flames or sparking source.
Incompatible materials	: Oxidizing agents.
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.
Hardening time:	: No additional information available

SECTION 11: Toxicological informatio	n
11.1. Information on toxicological effects	
Acute toxicity (oral) Acute toxicity (dermal) Acute toxicity (inhalation)	 Not classified Not classified 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)
ATE CA (oral)	3161 mg/kg bodyweight
Skin corrosion/irritation	: Not classified. pH: 7.8 – 9.5 (10% aqueous suspension)
1,3,5-Triazine-2,4,6-triamine (108-78-1)	
рН	Aqueous solution
Serious eye damage/irritation	: Not classified pH: 7.8 – 9.5 (10% aqueous suspension)
1,3,5-Triazine-2,4,6-triamine (108-78-1)	

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рН	Aqueous solution
Respiratory or skin sensitization :	Not classified
Germ cell mutagenicity :	Not classified
Carcinogenicity :	Suspected of causing cancer.

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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
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
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Target organ(s)	urinary bladder, kidneys
Aspiration hazard :	Not classified
Melamine (108-78-1)	
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

12.1. Toxicity	
	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
· · · ·	Not classified
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)	
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

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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 / 68°F)	
1,3,5-Triazine-2,4,6-triamine (108-78-1)		
Bioaccumulative potential	Bioaccumulation unlikely.	
BCF fish 1	< 3.8 l/kg	
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	
12.5. Other adverse effects		
Ozone :	Not classified	

SECTION 13: Disposal considerations			
13.1. Disposal methods			
Regional waste regulation Waste treatment methods Product/Packaging disposal recommendations	 Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container in accordance with licensed collector's sorting instructions. 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 Transportation of Dangerous Goods / Department of Transport / IMDG / IATA TDG DOT IMDG ΙΑΤΑ 14.1. UN number Not regulated for transport 14.2. Proper Shipping Name Not regulated Not regulated Not regulated Not regulated 14.3. Transport hazard class(es) Not regulated Not regulated Not regulated Not regulated 14.4. Packing group Not regulated Not regulated Not regulated Not regulated

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TDG	DOT	IMDG	ΙΑΤΑ
14.5. Environmental hazards			
Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available			

TDG

Not regulated

DOT

Not regulated

IMDG

Not regulated

IATA

Not regulated

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

Not applicable

SECTION 15: Regulatory information

15.1. National regulations

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

Listed on the Canadian DSL (Domestic Substances List)

15.2. International regulations

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

Listed on the United States TSCA (Toxic Substances Control Act) inventory - Status: Active Listed on INSQ (Mexican National Inventory of Chemical Substances)

SECTION 16: Other information

Revision date Supersedes : 20/02/2024 : 07/08/2023

Indication of changes:

Details of the supplier of the safety data sheet. Physical and chemical properties.

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

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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	
ΙΑΤΑ	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	

Safety Data Sheet (SDS), Canada

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.