

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 453/2010

# SAFETY DATA SHEET

FOR INDUSTRIAL USE ONLY

EPIKURE™ Curing Agent MGS RIMH 937

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

### 1.1 Product identifier

**Product name** : EPIKURE™ Curing Agent MGS RIMH 937  
**SDS Number** : 16S-00151  
**Product type** : Curing Agent

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

**Product use** : Epoxy Resin Systems

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

**Manufacturer/Supplier/Importer** : Suter Kunststoffe AG  
Aefligenstrasse 3  
3312 Fraubrunnen  
Schweiz

**Contact person** : info@swiss-composite.ch

**Telephone** : General Informations  
+41 (0)31 763 60 60

### 1.4

**Emergency telephone number**

**Supplier**

**Telephone number** : Tox Info Suisse  
: Emergency number: 145 (from abroad: +41 44 251 51 51)  
non urgent inquiry: +41 44 251 66 66

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

Acute Tox. 4 H302  
Acute Tox. 3 H311  
Acute Tox. 2 H330  
Skin Corr./Irrit. 1A H314  
Skin Sens. 1 H317  
Aquatic Chronic 2 H411

### Classification according to Directive 1999/45/EC [DPD]

<b>Classification</b>	:	T, R23/24 Xn, R22 C, R35 R43 N, R51/53
<b>Physical/chemical hazards</b>	:	Not applicable.
<b>Human health hazards</b>	:	Toxic by inhalation and in contact with skin. Harmful if swallowed. Causes severe burns. May cause sensitization by skin contact.
<b>Environmental hazards</b>	:	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 16 for the full text of the R phrases or H statements declared above.

### 2.2 Label elements

<b>Hazard pictograms</b>	:	
<b>Signal word</b>	:	Danger
<b>Hazard statements</b>	:	Fatal if inhaled. Toxic in contact with skin. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

### Precautionary statements

<b>Prevention</b>	:	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Do not breathe vapor.
<b>Response</b>	:	<b>IF INHALED:</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. <b>IF SWALLOWED:</b> Immediately call a POISON CENTER or physician. Do NOT induce vomiting. <b>IF ON SKIN (or hair):</b> Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. <b>IF IN EYES:</b> Immediately call a POISON CENTER or physician.
<b>Storage</b>	:	Store locked up.
<b>Disposal</b>	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
<b>Hazardous ingredients</b>	:	2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine) 3-aminomethyl-3,5,5-trimethylcyclohexylamine

**Supplemental label elements** : Not applicable.

### 2.3 Other hazards

**Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII** : Not applicable.

**Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : Not applicable.

**Other hazards which do not result in classification** : None known.

## SECTION 3: Composition/information on ingredients

**Substance/mixture** : Mixture

Product/ingredient name	Identifiers	% by weight	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	RRN : 01-2119497829-12-0000 EC:229-962-1 CAS : 6864-37-5 Index:612-110-00-1	>=90 - 100	T; R23/24 C; R35 Xn; R22 N; R51/53	Acute Tox. 4, H302 Acute Tox. 3, H311 Acute Tox. 2, H330 Skin Corr./Irrit. 1A, H314 Aquatic Chronic 2, H411	[1]
3-aminomethyl-3,5,5-trimethylcyclohexylamine	EC:220-666-8 CAS : 2855-13-2 Index:612-067-00-9	>=10 - <20	C; R34 Xn; R21/22 R43 R52/53	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr./Irrit. 1B, H314 Eye Dam./Irrit. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

See Section 16 for the full text of the R phrases or H statements declared above.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

**Occupational exposure limits, if available, are listed in Section 8.**

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first aid personnel** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

##### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : Fatal if inhaled. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin contact** : Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

### **Over-exposure signs/symptoms**

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

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

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

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

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides

### **5.3 Advice for firefighters**

- Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

- 6.2 Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

## 6.3 Methods and material for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

- 6.4 Reference to other sections** : See Section 1 for emergency contact information.  
See Section 8 for information on appropriate personal protective equipment.  
See Section 13 for additional waste treatment information.

# SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10 of SDS) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

**Recommendations** : Not available  
**Industrial sector specific solutions** : Not available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

**Recommended monitoring procedures** : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

**DNEL/DMEL Summary** : Not available

**PNEC Summary** : Not available

### 8.2 Exposure controls

**Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

#### Individual protection measures

**Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## **SECTION 9: Physical and chemical properties**

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

#### Appearance

**Physical state** : Liquid  
**Color** : Blue.  
**Odor** : amine.  
**Odor threshold** : Not available  
**pH** : Not available  
**Melting point/freezing point** : Not available  
**Initial boiling point and boiling range** : 247 °C  
**Flash point** : 110 °C

<b>Evaporation rate</b>	:	Not available
<b>Upper/lower flammability or explosive limits</b>	:	<b>Lower:</b> Not available <b>Upper:</b> Not available
<b>Vapor pressure</b>	:	Not available
<b>Vapor density</b>	:	Not available
<b>Relative density</b>	:	Not available
<b>Density</b>	:	0.940 g/cm <sup>3</sup>
<b>Solubility(ies)</b>	:	Not available
<b>Solubility in water</b>	:	Insoluble
<b>Partition coefficient: n-octanol/water</b>	:	Not available
<b>Auto-ignition temperature</b>	:	Not available
<b>Decomposition temperature</b>	:	Not available
<b>Viscosity</b>	:	<b>Dynamic:</b> Not available <b>Kinematic:</b> Not available
<b>Explosive properties</b>	:	Not available
<b>Oxidizing properties</b>	:	Not available

## 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	:	Stable under normal conditions.
<b>10.2 Chemical stability</b>	:	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	:	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	:	No specific data.
<b>10.5 Incompatible materials</b>	:	No specific data.
<b>10.6 Hazardous decomposition products</b>	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)				
	LD50 Oral	Rat	> 320 - 460 mg/kg	-
	LC50 Inhalation	Rat	0.42 mg/l	4 h
	LD50 Dermal	Rabbit	> 200 - 400 mg/kg	-
3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	LD50 Oral	Rat	1,030 mg/kg	-

**Conclusion/Summary** : Not available

#### Acute toxicity estimates

<b>Route</b>	<b>ATE value</b>
Oral	527.1 mg/kg
<b>Route</b>	<b>ATE value</b>
Dermal	323.5 mg/kg
<b>Route</b>	<b>ATE value</b>
Inhalation (dusts and mists)	0.4667 mg/l

### Irritation/Corrosion

#### Conclusion/Summary

**Skin** : Not available  
**eyes** : Not available  
**Respiratory** : Not available

### Sensitization

#### Conclusion/Summary

**Skin** : Not available  
**Respiratory** : Not available

### Mutagenicity

Conclusion/Summary : Not available

### Carcinogenicity

Conclusion/Summary : Not available

### Reproductive toxicity

Conclusion/Summary : Not available

### Teratogenicity

Conclusion/Summary : Not available

### Specific target organ toxicity (single exposure)

Not available

### Specific target organ toxicity (repeated exposure)

Not available

### Aspiration hazard

Not available

**Information on the likely routes of exposure** : Not available

### Potential acute health effects

**Eye contact** : Causes serious eye damage.  
**Inhalation** : Harmful if swallowed. May cause burns to mouth, throat and stomach.  
**Skin contact** : Causes severe burns. Toxic in contact with skin. May cause an allergic skin reaction.  
**Ingestion** : Fatal if inhaled. May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

### **Symptoms related to the physical, chemical and toxicological characteristics**

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur
- Ingestion** : Adverse symptoms may include the following:  
stomach pains

### **Delayed and immediate effects and also chronic effects from short and long term exposure**

#### **Short term exposure**

- Potential immediate effects** : Not available  
**Potential delayed effects** : Not available

#### **Long term exposure**

- Potential immediate effects** : Not available  
**Potential delayed effects** : Not available

### **Potential chronic health effects**

- Conclusion/Summary** : Not available
- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.  
**Mutagenicity** : No known significant effects or critical hazards.  
**Teratogenicity** : No known significant effects or critical hazards.  
**Developmental effects** : No known significant effects or critical hazards.  
**Fertility effects** : No known significant effects or critical hazards.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)			
	Acute LC50 31.6 mg/l	Fish - Ide, Silver or Golden Orfe	96 h
	Acute EC50 4.6 mg/l	Aquatic invertebrates. Water flea	48 h
	Acute EC50 > 5 mg/l	Aquatic plants - Green algae	72 h

- Conclusion/Summary** : Not available

### **12.2 Persistence and degradability**

- Conclusion/Summary** : Not available

### 12.3 Bioaccumulative potential

Not available

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
2,2'-dimethyl-4,4'-methylenebis(cyclohexylamine)	2.3	< 60 <= 6	low

### 12.4 Mobility in soil

Soil/water partition coefficient (KOC) : Not available

Mobility : Not available

### 12.5 Results of PBT and vPvB assessment

PBT : P: Not available  
B: Not available  
T: Not available

vPvB : vP: Not available  
vB: Not available

12.6 Other adverse effects : No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

Regulatory information	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
ADR/ADN	2922	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-])	8 (6.1)	II
RID	2922	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-])	8 (6.1)	II
ICAO/IATA	2922	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-])	8 (6.1)	II
IMO/IMDG	2922	CORROSIVE LIQUID, TOXIC, N.O.S. (Cyclohexanamine, 4,4'-methylenebis[2-methyl-])	8 (6.1)	II

### 14.5. Environmental hazards

Environmentally hazardous and/or Marine Pollutant : Yes.



**14.6 Special precautions for user** : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.'

## SECTION 15: Regulatory information

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

**EU Regulation (EC) No. 1907/2006 (REACH)**  
**Annex XIV - List of substances subject to authorization**  
**Substances of very high concern**

**Carcinogen:** Not listed

**Mutagen:** Not listed

**Toxic to reproduction:** Not listed

**PBT:** Not listed

**vPvB:** Not listed

### Other EU regulations

**REACH Status** : The substance(s) in this product has (have) been Pre-Registered and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH).

**Aerosol dispensers** : Not applicable.

**Annex XVII - Restrictions on the** : Not applicable.

**manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

**EU - Prior Informed Consent.** : Not listed

**List of chemicals subject to the international PIC procedure (Annex I - Part 1)**

**EU - Prior Informed Consent.** : Not listed

**List of chemicals subject to the international PIC procedure (Annex I - Part 2)**

**EU - Prior Informed Consent.** : Not listed

**List of chemicals subject to the international PIC procedure (Annex I - Part 3)**

**AOX** : The product does not contain organically bound halogens which could lead to an AOX value in waste water.

**Seveso II Directive**

This product is controlled under the Seveso II Directive.

**Danger criteria**

Category
H2: Acute toxicity 2 any route of entry or Acute toxicity 3 Inhalation/Dermal route of entry
E2: Hazardous to the aquatic environment - Chronic 2
C2: Toxic
C9ii: Toxic for the environment

**National regulations**

**Hazardous incident ordinance** : Applicable. Category 2 Toxic  
**Hazard class for water** : WGK 3, Appendix No. 4  
**Technical instruction on air quality control** : Number 5.2.5: TA-Luft Class I - 90 %  
Number 5.2.5: 10 %

**International regulations**

**International lists** : Australia inventory (AICS) All components are listed or exempted.  
Canada inventory All components are listed or exempted.  
Japan inventory All components are listed or exempted.  
China inventory (IECSC) All components are listed or exempted.  
Korea inventory All components are listed or exempted.  
New Zealand Inventory (NZIoC) All components are listed or exempted.  
Philippines inventory (PICCS) All components are listed or exempted.  
United States inventory (TSCA 8b) All components are listed or exempted.  
Taiwan inventory (CSNN) All components are listed or exempted.

**Chemical Weapons Convention List Schedule I Chemicals** : Not listed

: Not listed

**Chemical Weapons Convention List Schedule II Chemicals** : Not listed

: Not listed

**Chemical Weapons Convention** : Not listed  
**List Schedule III Chemicals** : Not listed

**15.2 Chemical Safety Assessment** : This product contains substances for which Chemical Safety Assessments are still required.

## SECTION 16: Other information

**Abbreviations and acronyms** :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- DMEL = Derived Minimal Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Acute Tox. 4, H302 (oral)	Calculation method
Acute Tox. 3, H311 (dermal)	Calculation method
Acute Tox. 2, H330 (inhalation)	Calculation method
Skin Corr./Irrit. 1A, H314	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method

### **Full text of abbreviated H statements :**

<b>H330 (inhalation)</b>	Fatal if inhaled.
<b>H311 (dermal)</b>	Toxic in contact with skin.
<b>H302 (oral)</b>	Harmful if swallowed.
<b>H312 (dermal)</b>	Harmful in contact with skin.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H317</b>	May cause an allergic skin reaction.

### **Full text of classifications [CLP/GHS]**

<b>Acute Tox. 2, H330</b>	ACUTE TOXICITY (inhalation) - Category 2
<b>Acute Tox. 3, H311</b>	ACUTE TOXICITY (dermal) - Category 3
<b>Acute Tox. 4, H302</b>	ACUTE TOXICITY (oral) - Category 4
<b>Acute Tox. 4, H312</b>	ACUTE TOXICITY (dermal) - Category 4
<b>Aquatic Chronic 2, H411</b>	AQUATIC HAZARD (LONG-TERM) - Category 2
<b>Aquatic Chronic 3, H412</b>	AQUATIC HAZARD (LONG-TERM) - Category 3

<b>Skin Corr./Irrit. 1A, H314</b>	SKIN CORROSION/IRRITATION - Category 1A
<b>Skin Corr./Irrit. 1B, H314</b>	SKIN CORROSION/IRRITATION - Category 1B
<b>Skin Sens. 1, H317</b>	SKIN SENSITIZATION - Category 1

**Full text of abbreviated R phrases** : R23/24- Toxic by inhalation and in contact with skin.  
R22- Harmful if swallowed.  
R21/22- Harmful in contact with skin and if swallowed.  
R34- Causes burns.  
R35- Causes severe burns.  
R43- May cause sensitization by skin contact.  
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Full text of classifications [DSD/DPD]** : T - Toxic  
C - Corrosive  
Xn - Harmful  
N - Dangerous for the environment.

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