

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(TN) Curing Agent MGS LH 237

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

### 1.1 Product identifier

Product name : EPIKURE(TN) Curing Agent MGS LH 237

**SDS Number** : 16S-00047

Product type : Epoxy Resin

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

Product use

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier/Impor Suter Kunststoffe AG

ter Aefligenstrasse 3

3312 Fraubrunnen

Schweiz

Contact person info@swiss-composite.ch

**Telephone** Allgemeine Informationen

+41 (0)31 763 60 60

1.4

**Emergency telephone** Tox Info Suisse

number Supplier Im Notfall: Tel. 145 (aus dem Ausland: +41 44 251 51 51)

**Telephone number**Auskunft: +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. 4 H312 Skin Corr./Irrit. 1B H314 Skin Sens. 1 H317 Aquatic Chronic 3 H412

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

Classification Xn, R21/22

> C, R34 R43 R52/53

Physical/chemical hazards

Not applicable.

Human health hazards Harmful in contact with skin and if swallowed. Causes burns. May

cause sensitization by skin contact.

**Environmental hazards** Harmful 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

Hazard pictograms

Signal word

Hazard statements Harmful if swallowed or in contact with skin.

> Causes severe skin burns and eye damage. May cause an allergic skin reaction.

Harmful to aquatic life with long lasting effects.

#### **Precautionary statements**

Prevention Wear protective gloves.

> Wear eye or face protection. Wear protective clothing.

Avoid release to the environment.

Response IF INHALED:

Remove victim to fresh air and keep at rest in a position comfortable

for breathing.

Immediately call a POISON CENTER or physician.

IF SWALLOWED:

Immediately call a POISON CENTER or physician.

Do NOT induce vomiting. IF ON SKIN (or hair):

Take off immediately all contaminated clothing.

Rinse skin with water or shower.

Immediately call a POISON CENTER or physician.

Immediately call a POISON CENTER or physician.

Storage Store locked up.

Dispose of contents and container in accordance with all local, Disposal

regional, national and international regulations.

Hazardous ingredients Poly(oxypropylene) diamine

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

		% by	Class		
Product/ingredient name	Identifiers	weight	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Poly(oxypropylene) diamine	EC: CAS: 9046-10-0 Index:	>=50 - <75	Xn; R21/22 C; R34 R52/53	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr./Irrit. 1B, H314 Eye Dam./Irrit. 1, H318 Aquatic Chronic 3, H412	[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 T ox. 4, H302 Acute T ox. 4, H312 Skin Corr./Irrit. 1B, H314 Eye Dam./Irrit. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
Trimethylolpropane Poly(oxypropylene) Triamine	RRN:01- 2119556886-20 EC:500-105-6 CAS:39423-51- 3 Index:	>=10 - <20	Xn; R21/22 Xi; R41 N; R51/53	Acute Tox. 4, H302 Acute Tox. 4, H312 Eye Dam./Irrit. 1, H318 Aquatic Chronic 2, H411	[1]

### <u>Type</u>

- [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

Cet 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 Inhalation : Causes serious eye damage.

: 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. Harmful 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 Unsuitable extinguishing media Use an extinguishing agent suitable for the surrounding fire.

: 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 harmful 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. 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.

### 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 licens ed 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. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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** : Not available

solutions

# **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

If user operations generate dust, fumes, gas, vapor or mist, 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: LiquidColor: Blue.

Odor : Amine-like.
Odor threshold : Not available
pH : Not available
Melting point/freezing point : Not available
Initial boiling point and boiling : 247 °C

range

Flash point : 100 °C

**Evaporation rate** : Not available

Upper/lower flammability or : Lower: Not available explosive limits Upper: Not available

Vapor pressure: Not availableVapor density: Not availableRelative density: Not availableDensity: 0.94 - 1.02 g/cm3

Solubility(ies) : Not available
Solubility in water : Insoluble

Partition coefficient: n-

octanol/water

: Not available

**Auto-ignition temperature** : Not available **Decomposition temperature** : Not available

Viscosity : **Dynamic:** 20 - 80 mPa·s @ 25 °C (DIN 53015)

Kinematic: Not available

Explosive properties : Not available
Oxidizing properties : Not available

### 9.2 Other information

No additional information.

### **SECTION 10: Stability and reactivity**

**10.1 Reactivity** : Stable under normal conditions.

**10.2 Chemical stability** : The product is stable.

10.3 Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions

will not occur.

**10.4 Conditions to avoid** : No specific data.

**10.5 Incompatible materials** : No specific data.

10.6 Hazardous decomposition

products

: 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	]
Poly(oxypropylene) diamine	Poly(oxypropylene) diamine				
	LD50 Oral	Rat	1,100 mg/kg	-	
	LD50 Dermal	Rabbit	1,550 mg/kg	-	
3-aminomethyl-3,5,5-trimeth	ylcyclohexylamine				
	LD50 Oral	Rat	1,030 mg/kg	-	
Trimethylolpropane Poly(oxypropylene) Triamine					
	LD50 Oral	Rat	550 mg/kg	-	
	LD50 Dermal	Rat	> 1,000 mg/kg	-	Ì

Conclusion/Summary : Not available

### Acute toxicity estimates

Route	ATE value
Oral	1,056.3 mg/kg
Route	ATE value
Dermal	1,518.6 mg/kg

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Poly(oxypropylene) diamine	eyes - Severe	Rabbit			-
	irritant				

Conclusion/Summary

Skin:Not availableeyes:Not availableRespiratory:Not available

**Sensitization** 

Conclusion/Summary

Skin: Not availableRespiratory: 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** : Not available

of exposure

Potential acute health effects

Eye contact : Causes serious eye damage.

**Inhalation** : Harmful if swallowed. May cause burns to mouth, throat and

stomach.

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Skin contact Causes severe burns. Harmful in contact with skin. May cause an

allergic skin reaction.

Ingestion 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:

watering

redness No specific data. Inhalation

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
Trimethylolpropane Poly(oxypt	copylene) Triamine		
	Acute LC50 $> 100 \text{ mg/l}$ -	Fish - Rainbow	96 h
		trout,donaldson trout	
	Acute EC50 13 mg/l -	Aquatic invertebrates.	48 h
		Water flea	
	Acute EC50 4.4 mg/l -	Aquatic plants - Algae	72 h

Conclusion/Summary Not available

### 12.2 Persistence and degradability

Product/ingredient	Test	Result	Dose	Inoculum
name				
Trimethylolpropane		-		
Poly(oxypropylene)				
Triamine				
Remarks:	Not readily			

Conclusion/Summary : Not available

### 12.3 Bioaccumulative potential

Not available

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Poly(oxypropylene) diamine	1.34	-	low
Trimethylolpropane	-1.13	-	low
Poly(oxypropylene) Triamine			

### 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** 

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### 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	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II
RID	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II
ICAO/IATA	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	П
IMO/IMDG	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II

### 14.5. Environmental hazards

Environmentally hazardous and/or Marine Pollutant : No.

### 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

<u>Carcinogen</u>: Not listed Mutagen: Not listed

**Toxic to reproduction:** Not listed

PBT: Not listedvPvB: Not listed

### Other EU regulations

**REACH Status**: The substance(s) in this product has (have) been Pre-Registered

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and/or Registered, or are exempted from registration, according to Regulation (EC) No. 1907/2006 (REACH).

Aerosol dispensers
Annex XVII - Restrictions on the
manufacture, placing on the
market and use of certain

dangerous substances, mixtures and articles

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure

(Annex I - Part 1)

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure

(Annex I - Part 2)

EU - Prior Informed Consent. List of chemicals subject to the international PIC procedure

(Annex I - Part 3)

Not applicable.
Not applicable.

Not listed

Not listed

Not listed

**AOX** : Not available

### Seveso II Directive

This product is not controlled under the Seveso II Directive.

### National regulations

**Hazardous incident ordinance :** Not applicable.

**Hazard class for water** : WGK 2, Appendix No. 4 **Technical instruction on air** : Number 5.2.5: 92.5 %

quality control

### 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

**Chemical Weapons Convention** 

Not listedNot listed

Chemical Weapons Convention
List Schedule II Chemicals

Not listedNot listed

Chemical Weapons Convention List Schedule III Chemicals

Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety

### **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. 4, H312 (dermal)	Calculation method
Skin Corr./Irrit. 1B, H314	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 3, H412	Calculation method

# Full text of abbreviated H statements

H302 (oral)	Harmful if swallowed.
H312 (dermal)	Harmful in contact with skin.
H411	Toxic to aquatic life with long
	lasting effects.
H412	Harmful to aquatic life with long
	lasting effects.
H318	Causes serious eye damage.
H314	Causes severe skin burns and
	eye damage.
H317	May cause an allergic skin
	reaction.

# Full text of classifications [CLP/GHS]

Acute Tox. 4, H302	ACUTE TOXICITY (oral) -
	Category 4
Acute Tox. 4, H312	ACUTE TOXICITY (dermal) -
	Category 4
Aquatic Chronic 2, H411	AQUATIC HAZARD (LONG-
	TERM) - Category 2
Aquatic Chronic 3, H412	AQUATIC HAZARD (LONG-
	TERM) - Category 3
Eye Dam./Irrit. 1, H318	SERIOUS EYE DAMAGE/
	EYE IRRITATION - Category 1
Skin Corr./Irrit. 1B, H314	SKIN
	CORROSION/IRRITATION -
	Category 1B
Skin Sens. 1, H317	SKIN SENSITIZATION -
	Category 1

Full text of abbreviated R phrases

R21/22- Harmful in contact with skin and if swallowed.

R34- Causes burns.

R41- Risk of serious damage to eyes.

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 : C - Corrosive [DSD/DPD] Xn - Harmful

Xn - Harmfu Xi - Irritant

N - Dangerous for the environment.

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### Notice to reader

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