

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by  
Commission Regulation (EU) 2020/878

# SAFETY DATA SHEET

FOR PROFESSIONAL and/or INDUSTRIAL USE ONLY

EPIKURE™ Curing Agent MGS RIMH 1366

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

### 1.1 Product identifier

**Product name** : EPIKURE™ Curing Agent MGS RIMH 1366  
**SDS Number** : 16S-00153  
**Product type** : Curing Agent  
**Other means of identification** : UFI: 7UUW-CVQG-5W0E-CR8G

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

**Product use** Epoxy Resin Systems

**Identified uses**  
Not applicable.

**Uses advised against**  
Not applicable.

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

**Manufacturer/Supplier/Importer** : Westlake Epoxy B.V.  
Seattleweg 17  
3195 ND Pernis - Rotterdam  
The Netherlands

**Contact person** : epoxy@westlake.com  
**Telephone** : General information  
+31 (0) 10 295 4000

### 1.4

**Emergency telephone number**  
**Supplier** : CARECHEM24  
**Telephone number** : +44 (0) 1235 239 670

## 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  
Skin Corr./Irrit. 1B H314

Eye Dam./Irrit. 1 H318  
Skin Sens. 1 H317  
Repr. 2 H361fd  
STOT RE 2 H373  
Aquatic Chronic 3 H412

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

## 2.2 Label elements

<b>Hazard pictograms</b>	:	
<b>Signal word</b>	:	Danger
<b>Hazard statements</b>	:	Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility. Suspected of damaging the unborn child. May cause damage to organs through prolonged or repeated exposure. Harmful to aquatic life with long lasting effects.

### Precautionary statements

<b>Prevention</b>	:	Obtain special instructions before use. Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection. Avoid release to the environment. Do not breathe vapor. Do not eat, drink or smoke when using this product. Wash thoroughly after handling.
<b>Response</b>	:	IF exposed or concerned: Get medical advice or attention. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
<b>Storage</b>	:	Store locked up.
<b>Disposal</b>	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia  
 3-aminomethyl-3,5,5-trimethylcyclohexylamine  
 2-piperazin-1-ylethylamine  
 benzyl alcohol  
 4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-salicylic acid  
 4-nonylphenol, branched

**Supplemental label elements** : Not applicable.

### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII** : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**Other hazards which do not result in classification** : Product does not contain any substance having endocrine disrupting properties  $\geq 0.1\%$ .

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	RRN : 01-2119557899-12 EC : 618-561-0 CAS : 9046-10-0	$\geq 50 - \leq 75$	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	[1]
3-aminomethyl-3,5,5-trimethylcyclohexylamine	RRN : 01-2119514687-32 EC : 220-666-8 CAS : 2855-13-2 Index : 612-067-00-9	$\geq 25 - \leq 50$	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 1,030 mg/kg	[1] [2]
2-piperazin-1-ylethylamine	RRN : 01-2119471486-30 EC : 205-411-0 CAS : 140-31-8 Index : 612-105-00-4	$\geq 5 - < 10$	Acute Tox. 4, H302 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd STOT RE 1, H372 (respiratory tract) Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Dermal] = 866 mg/kg	[1]
benzyl alcohol	RRN : 01-2119492630-38	$> 0 - < 1$	Acute Tox. 4, H302 Eye Irrit. 2, H319	ATE [Oral] = 1,200 mg/kg	[1] [2]

	EC : 202-859-9 CAS : 100-51-6 Index : 603-057-00-5		Skin Sens. 1B, H317		
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5	RRN : 01-2119965165-33 CAS : 38294-64-3	> 0 - <= 0.3	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412		[1]
Salicylic Acid	RRN : 01-2119486984-17 EC : 200-712-3 CAS : 69-72-7	> 0 - <= 0.3	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	ATE [Oral] = 891 mg/kg	[1]
4-nonylphenol, branched	RRN : 01-2119510715-45 EC : 284-325-5 CAS : 84852-15-3 Index : 601-053-00-8	> 0 - <= 0.1	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1,300 mg/kg M [Acute] = 10 M [Chronic] = 10	[1] [3]

See Section 16 for the full text of the 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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

#### Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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. 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** : No known significant effects or critical hazards.  
**Skin contact** : Causes severe burns. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

#### 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 dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray (fog).
- Unsuitable extinguishing media** : Do not use water jet.

### 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.
- Additional information** : Not available

## 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.

### 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. 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 solutions** : Not available

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
3-aminomethyl-3,5,5-trimethylcyclohexylamine	<b>DFG MAK-Werte Liste (2014-06-23)</b> Notes: Skin sensitizer
benzyl alcohol	<b>DFG MAK-Werte Liste (2016-07-08)</b> TWA 22 mg/m <sup>3</sup> 5 ppm Notes: Absorbed through skin <b>PEAK</b> 44 mg/m <sup>3</sup> 10 ppm Notes: Absorbed through skin <b>TRGS900 AGW (2017-09-01)</b> TWA 22 mg/m <sup>3</sup> 5 ppm Notes: Absorbed through skin <b>PEAK</b> 44 mg/m <sup>3</sup> 10 ppm Notes: Absorbed through skin

#### 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.

#### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	DNEL	Long term Inhalation	1.36 mg/m <sup>3</sup>	Workers	Systemic
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	DNEL	Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic
benzyl alcohol	DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic
benzyl alcohol	DNEL	Long term Inhalation	22 mg/m <sup>3</sup>	Workers	Systemic
benzyl alcohol	DNEL	Short term Inhalation	110 mg/m <sup>3</sup>	Workers	Systemic

benzyl alcohol	DNEL	Long term Dermal	8 mg/kg bw/day	Workers	Systemic
benzyl alcohol	DNEL	Short term Dermal	40 mg/kg bw/day	Workers	Systemic
benzyl alcohol	DNEL	Long term Inhalation	5.4 mg/m <sup>3</sup>	General population	Systemic
benzyl alcohol	DNEL	Short term Inhalation	27 mg/m <sup>3</sup>	General population	Systemic
benzyl alcohol	DNEL	Long term Dermal	4 mg/kg bw/day	General population	Systemic
benzyl alcohol	DNEL	Short term Dermal	20 mg/kg bw/day	General population	Systemic
benzyl alcohol	DNEL	Long term Oral	4 mg/kg bw/day	General population	Systemic

**DNEL/DMEL Summary** : Not available

### PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Fresh water	0.015 mg/l	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Marine	0.0142 mg/l	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Sewage Treatment Plant	7.5 mg/l	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Fresh water sediment	0.132 mg/kg dw	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Marine water sediment	0.125 mg/kg dw	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Soil	0.0176 mg/kg dw	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Secondary Poisoning	6.93 mg/kg wwt	
benzyl alcohol	PNEC	Fresh water	1 mg/l	
benzyl alcohol	PNEC	Marine	0.1 mg/l	
benzyl alcohol	PNEC	Sewage Treatment Plant	39 mg/l	
benzyl alcohol	PNEC	Sediment (freshwater)	5.27 mg/kg dwt	
benzyl alcohol	PNEC	Marine water sediment	0.527 mg/kg dw	
benzyl alcohol	PNEC	Soil	0.456 mg/kg dw	

**PNEC Summary** : Not available

### **Derived No-Effect Levels' (DNEL's) and Predicted No-Effect Concentrations' (PNEC's)**

#### **Explanatory note:**

REACH requires manufacturers and importers to establish and report 'Derived No-Effect Levels' (DNEL's) for humans by inhalation, ingestion and dermal routes of exposure and 'Predicted No-Effect Concentrations'

(PNEC's) for environmental exposure. DNEL's and PNEC's are established by the registrant without an official consultation process, and are not intended to be directly used for setting workplace or general population exposure limits. They are primarily used as input values in running Quantitative Risk Assessment models (like the ECETOC-TRA model).

Due to differences in calculation methodology the DNEL will tend to be lower (sometimes significantly) than any corresponding health-based OEL for that chemical substance. Further although DNEL's (and PNEC's) are an indication for setting risk reduction measures, it should be recognized that these limits do not have the same regulatory application as officially endorsed governmental OEL's.

## 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

**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.

**General protective measures** : Chemical splash goggles or face shield. Chemical-resistant gloves. Suitable protective footwear. Light protective clothing. Eyewash bottle with clean water.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: liquid
<b>Color</b>	: Blue.
<b>Odor</b>	: Amine.
<b>Odor threshold</b>	: Not available (not measured)
<b>pH</b>	: Not available (not measured)
<b>Melting point/freezing point</b>	: Not available (not measured)
<b>Initial boiling point and boiling range</b>	: Greater than 200 °C
<b>Flash point</b>	: Greater than 100 °C
<b>Evaporation rate</b>	: Not available (not measured)
<b>Upper/lower flammability or explosive limits</b>	: <b>Lower:</b> Not available (not measured) <b>Upper:</b> Not available (not measured)
<b>Vapor pressure</b>	: Not available (not measured)
<b>Vapor density</b>	: Not available (not measured)
<b>Relative density</b>	: Not available (not measured)
<b>Density</b>	: 0.97 g/cm <sup>3</sup> @ 20 °C
<b>Solubility(ies)</b>	: Not available (not measured)
<b>Solubility in water</b>	: Soluble
<b>Partition coefficient: n-octanol/water</b>	: Not applicable.
<b>Auto-ignition temperature</b>	: Not available (not measured)
<b>Decomposition temperature</b>	: Not available (not measured)
<b>Viscosity</b>	: <b>Dynamic:</b> 10 - 20 mPa·s @ 25 °C (DIN 53015) <b>Kinematic:</b> Not available (not measured)
<b>Explosive properties</b>	: Not available (not measured)
<b>Oxidizing properties</b>	: Not available (not measured)

#### Particle characteristics

**Median particle size** : Not applicable.

### 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 hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia				
	LD50 Oral	Rat	2,885 mg/kg	-
	LD50 Dermal	Rabbit	2,980 mg/kg	-
3-aminomethyl-3,5,5-trimethylcyclohexylamine				
	LD50 Oral	Rat	1,030 mg/kg	-
	LD50 Oral	Rat	1,030 mg/kg	-
2-piperazin-1-ylethylamine				
	LD50 Oral	Rat	> 1,000 mg/kg	-
	LD50 Oral	Rat	> 1,000 mg/kg	-
	LD50 Dermal	Rabbit	866 mg/kg	-
	LD50 Dermal	Rabbit	866 mg/kg	-
benzyl alcohol				
	LD50 Oral	Rat	1,200 mg/kg	-
	LC50 Inhalation Dusts and mists	Rat	4.178 mg/l OECD Test Guideline 403	4 h
Salicylic Acid				
	LD50 Oral	Rat	891 mg/kg	-
	LD50 Oral	Rat	891 mg/kg	-
	LD50 Dermal	Rabbit	> 10,000 mg/kg	-
	LD50 Dermal	Rabbit	> 10,000 mg/kg	-
4-nonylphenol, branched				
	LD50 Oral	Rat	1,300 mg/kg	-
	LD50 Oral	Rat	1,300 mg/kg	-

**Conclusion/Summary** : Not available

#### Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
EPIKURE™ Curing Agent MGS RIMH 1366	1864.9 mg/kg	10825 mg/kg	N/A	N/A	N/A
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with	2885 mg/kg	2980 mg/kg	N/A	N/A	N/A

ammonia					
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030 mg/kg	N/A	N/A	N/A	N/A
2-piperazin-1-ylethylamine	500 mg/kg	866 mg/kg	N/A	N/A	N/A
benzyl alcohol	1200 mg/kg	N/A	N/A	N/A	N/A
Salicylic Acid	891 mg/kg	N/A	N/A	N/A	N/A
4-nonylphenol, branched	1300 mg/kg	N/A	N/A	N/A	N/A

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	Eyes OECD-Guideline 405 (Acute Eye Irritation/Corrosion)	Rabbit	-		-
<b>Remarks:</b>	Corrosive to eyes on contact.				
	Skin OECD-Guideline 404 (Acute Dermal Irritation/Corrosion)	Rabbit	-		-
<b>Remarks:</b>	Corrosive to skin on contact.				
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Skin	Rabbit	-	24 hrs	72 hrs
<b>Remarks:</b>	Corrosive to skin on contact.				
	Eyes OECD-Guideline 405 (Acute Eye Irritation/Corrosion)	Rabbit	-	24 hrs	24 hrs
<b>Remarks:</b>	Severely corrosive to the eyes.				
2-piperazin-1-ylethylamine	Eyes - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Severe irritant	Rabbit	-	24 hrs	-
benzyl alcohol	Skin - Not irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-	24 hrs	-
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5	Skin 431 In Vitro Skin Corrosion: Human Skin Model Test	Human	-		-
<b>Remarks:</b>	Corrosive to skin on contact.				
	Eyes		-		-
<b>Remarks:</b>	Corrosive to eyes and skin.				
4-nonylphenol, branched	Skin - Severe irritant	Rabbit	-	24 hrs	-
	Eyes - Severe irritant	Rabbit	-		-

### **Conclusion/Summary**

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

### Sensitization

Product/ingredient name	Route of exposure	Species	Result
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Skin	Guinea pig	Sensitizing OECD-Guideline 406 (Skin Sensitisation)

**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)**

Product/ingredient name	Category	Route of exposure	Target organs
2-piperazin-1-ylethylamine	Category 1	-	respiratory tract

**Aspiration hazard**

Not available

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

**Potential acute health effects**

**Eye contact** : Causes serious eye damage.  
**Inhalation** : No known significant effects or critical hazards.  
**Skin contact** : Causes severe burns. May cause an allergic skin reaction.  
**Ingestion** : Harmful if swallowed.

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

**Eye contact** : Adverse symptoms may include the following: pain, watering, redness  
**Inhalation** : Adverse symptoms may include the following: reduced fetal weight, increase in fetal deaths, skeletal malformations  
**Skin contact** : Adverse symptoms may include the following: pain or irritation, redness, blistering may occur, reduced fetal weight, increase in fetal deaths, skeletal malformations  
**Ingestion** : Adverse symptoms may include the following: stomach pains, reduced fetal weight, increase in fetal deaths, skeletal malformations

**Delayed and immediate effects as well as 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** : May cause damage to organs through prolonged or repeated exposure. 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.  
**Reproductive toxicity** : Suspected of damaging fertility. Suspected of damaging the unborn child.

**11.2. Information on other hazards**

**11.2.1 Endocrine disrupting properties** : Not available  
**11.2.2 Other information** : Not available

**SECTION 12: Ecological information**

**12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia			
	Acute NOEC 15 mg/l Fresh water OECD 203	Rainbow Trout	-
	Acute EC50 15 mg/l Fresh water OECD Test Guideline 201	Alga	72 h
3-aminomethyl-3,5,5-trimethylcyclohexylamine			
	Acute EC50 17.4 mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 17.4 mg/l Fresh water	Daphnia - Daphnia magna	48 h
2-piperazin-1-ylethylamine			
	Acute LC50 2,190,000 µg/l Fresh water	Fish - Pimephales promelas	96 h
	Acute LC50 2,190 mg/l Fresh water	Fish - Pimephales promelas	96 h
benzyl alcohol			
	Acute LC50 460 mg/l Fresh water	Fish - Pimephales promelas	96 h
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5			
	Acute EC50 11.1 mg/l Fresh water OECD Test Guideline 201	Selenastrum capricornutum	72 h
Salicylic Acid			
	Acute EC50 870 mg/l Fresh water	Daphnia - Daphnia magna	48 h
	Acute EC50 870 mg/l Fresh water	Daphnia - Daphnia magna	48 h

	water		
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - Daphnia magna	21 d
	Chronic NOEC 5.6 mg/l Fresh water	Daphnia - Daphnia magna	21 d
	Acute LC50 138.25 µg/l Fresh water	Fathead minnow	96 h
	Acute LC50 135.1 µg/l Fresh water	Bluegill	96 h
	Acute EC50 0.33 mg/l Fresh water	Green algae	72 h
	Acute EC50 0.41 mg/l Fresh water	Green algae	96 h

**Conclusion/Summary** : Not available

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	OECD-Guideline 301 B (CO2 Evolution Test)	0 % - No biodegradation - 28 d	-	-
<b>Remarks:</b>		The product is not biodegradable.		

**Conclusion/Summary** : Not available

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	1.34	-	low
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99	-	low
2-piperazin-1-ylethylamine	-1.48	-	low
benzyl alcohol	1.1	-	low
Salicylic Acid	2.21 - 2.26	-	low
4-nonylphenol, branched	5.4	2.4	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (KOC)** : Not available

**Mobility** : Not available

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Endocrine disrupting properties** : Not available

**12.7 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**

<b>Regulatory information</b>	<b>14.1. UN number</b>	<b>14.2. UN proper shipping name</b>	<b>14.3. Transport hazard class(es)</b>	<b>14.4. Packing group</b>
<b>ADR/ADN</b>	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II
<b>RID</b>	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II
<b>ICAO/IATA</b>	2735	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II
<b>IMO/IMDG</b>	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.

**14.7 Maritime transport in bulk according to IMO instruments** : Not available

## 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

###### Annex XIV

None required.

###### Substances of very high concern

The following components are listed:

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
4-nonylphenol, branched	Endocrine disrupting properties for environment	Candidate	ED/169/2012	2012-12-19

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

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

#### Prior Informed Consent (PIC) (649/2012/EU)

Product/ingredient name	Annex	Status
4-nonylphenol, branched	Annex I - Part 1	Listed
4-nonylphenol, branched	Annex I - Part 2	Listed

#### Seveso Directive

This product is not controlled under the Seveso Directive.

**Explosive precursors** : Not applicable.

#### National regulations

Product name	List name	Name on list	Classification	Notes
benzyl alcohol	-	-	Listed	-
EPIKURE™ Curing Agent MGS RIMH 1366	-	-	Listed	-

**Storage class (TRGS 510)** : 8A

**Hazardous incident ordinance**

This product is not controlled under the Germany Hazardous Incident Ordinance.

**Hazard class for water** : WGK 2  
**Technical instruction on air quality control** : TA-Luft Number 5.2.5: 99 %  
 : TA-Luft Number 5.2.5: Class I - 0.8 %  
**AOX** : Not available

**International regulations**

**International lists** : Canada. DSL - Domestic Substances List, part of CEPA (Canadian Environmental Protection Act) All components are listed or exempted.  
 China. IECSC - Inventory of Existing Chemical Substances in China All components are listed or exempted.  
 Korea inventory (KECI) All components are listed or exempted.  
 New Zealand Inventory (NZIoC) All components are listed or exempted.  
 Australia inventory (AICS). All components are listed or exempted.  
 Japan inventory (CSCL) All components are listed or exempted.  
 Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances All components are listed or exempted.  
 Taiwan Chemical Substances Inventory (TCSI) All components are listed or exempted.  
 US. Toxic Substances Control Act as amended 15 U.S.C. 2606 Sec. 8 (b) All components are active or exempted.  
 Thailand inventory Not determined.  
 Vietnam inventory Not determined.

**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]  
 DMEL = Derived Minimal Effect Level  
 DNEL = Derived No Effect Level  
 EUH statement = CLP-specific Hazard statement  
 N/A = Not available  
 PBT = Persistent, Bioaccumulative and Toxic  
 PNEC = Predicted No Effect Concentration  
 RRN = REACH Registration Number  
 SGG = Segregation Group  
 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	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361fd	Calculation method
STOT RE 2, H373	Calculation method

Aquatic Chronic 3, H412	Calculation method
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### **Full text of abbreviated H statements**

H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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

Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 2	TOXIC TO REPRODUCTION - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
STOT RE 1	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

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