

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

EPIKOTE™ Resin MGS LR 635

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

### 1.1 Product identifier

**Product name** : EPIKOTE™ Resin MGS LR 635  
**SDS Number** : 300000030631  
**Product type** : Epoxy Resin  
**Other means of identification** : UFI: H049-UJ5M-730W-R8G4

### 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

**National advisory body/Poison Center** : NVIC +31 (0)30-2748888, 'Uitsluitend bestemd om professionele hulpverleners te informeren bij acute vergiftigingen'.  
(‘Only for the purpose of informing medical personnel in cases of acute intoxications’)

## SECTION 2: Hazards identification


## 2.1 Classification of the substance or mixture

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

Eye Dam./Irrit. 2 H319  
Skin Sens. 1 H317  
Repr. 1B H360F  
Aquatic Chronic 2 H411  
Skin Corr./Irrit. 2 H315

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

## 2.2 Label elements

**Hazard pictograms** : 

**Signal word** : Danger

**Hazard statements** : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May damage fertility.  
Toxic to aquatic life with long lasting effects.

### Precautionary statements

**Prevention** : Obtain special instructions before use.  
Wear protective gloves, protective clothing, eye protection, face protection, or hearing protection.  
Avoid release to the environment.  
Avoid breathing vapor.  
Wash thoroughly after handling.

**Response** : Collect spillage.  
IF exposed or concerned:  
Get medical advice or attention.  
Take off contaminated clothing and wash it 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.  
If eye irritation persists:  
Get medical advice or attention.

**Storage** : Store locked up.

**Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.

**Hazardous ingredients** : bis-[4-(2,3-epoxipropoxy)phenyl]propane  
Bisphenol F diglycidyl ether, reaction mass of isomers  
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

**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** : None known.

## SECTION 3: Composition/information on ingredients

**3.2 Mixtures** : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
bis-[4-(2,3-epoxipropoxy)phenyl]propane	RRN : 01-2119456619-26 EC : 216-823-5 CAS : 1675-54-3 Index : 603-073-00-2	>= 75 - <= 90	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: >= 5 % Eye Irrit. 2, H319: >= 5 %	[1]
Bisphenol F diglycidyl ether, reaction mass of isomers	RRN : 01-2119454392-40 EC : 701-263-0	>= 10 - <= 25	Skin Irrit. 2, H315 Skin Sens. 1A, H317 Aquatic Chronic 2, H411	-	[1]
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	RRN : 01-2119485289-22 EC : 271-846-8 CAS : 68609-97-2 Index : 603-103-00-4	>= 5 - <= 10	Skin Irrit. 2, H315 Skin Sens. 1, H317 <b>Repr. 1B, H360F</b>	-	[1]

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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : 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. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. 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.
- Skin contact** : 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : 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. Get medical attention. 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 irritation. Causes serious eye irritation.
- Inhalation** : No known significant effects or critical hazards. No known significant effects or critical hazards.
- Skin contact** : Causes skin irritation. May cause an allergic skin reaction. Causes skin irritation. May cause an allergic skin reaction.
- Ingestion** : No known significant effects or critical hazards. No known significant effects or critical hazards.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
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:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight

increase in fetal deaths  
skeletal malformations

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

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- 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 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  
halogenated compounds

### 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. Avoid breathing 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. 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 ingest. Avoid breathing vapor or mist. 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

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.

#### DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Short term Dermal	8,3 mg/kg bw/day	Workers	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Short term Inhalation	12,3 mg/m <sup>3</sup>	Workers	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Long term Dermal	8,3 mg/kg bw/day	Workers	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Long term Inhalation	12,3 mg/m <sup>3</sup>	Workers	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Short term Dermal	3,6 mg/kg bw/day	General population	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Short term Inhalation	0,75 mg/m <sup>3</sup>	General population	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Short term Oral	0,75 mg/kg bw/day	General population	Systemic

bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Long term Dermal	3,6 mg/kg bw/day	General population	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Long term Inhalation	0,75 mg/m <sup>3</sup>	General population	Systemic
bis-[4-(2,3-epoxipropoxy)phenyl]propane	DNEL	Long term Oral	0,75 mg/kg bw/day	General population	Systemic
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Short term Dermal	8,3 µg/cm <sup>2</sup>	Workers	Local
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Long term Dermal	104,15 mg/kg bw/day	Workers	Systemic
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Long term Inhalation	29,39 mg/m <sup>3</sup>	Workers	Systemic
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Long term Dermal	62,5 mg/kg bw/day	General population	Systemic
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Long term Inhalation	8,7 mg/m <sup>3</sup>	General population	Systemic
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Long term Oral	6,25 mg/kg bw/day	General population	Systemic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	DNEL	Long term Inhalation	0,49 mg/m <sup>3</sup>	Workers	Systemic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	DNEL	Long term Inhalation	0,087 mg/m <sup>3</sup>	General population	Systemic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	DNEL	Long term Dermal	0,75 mg/kg bw/day	Workers	Systemic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	DNEL	Long term Dermal	0,089 mg/kg bw/day	General population	Systemic
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	DNEL	Long term Oral	0,05 mg/kg bw/day	General population	Systemic

**DNEL/DMEL Summary** : Not available

### PNECs

Product/ingredient name	Type	Compartment Detail	Value	Method Detail
bis-[4-(2,3-	PNEC	Fresh water	6 µg/l	

epoxipropoxi)phenyl]prop ane				
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Marine	1 µg/l	
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Sewage Treatment Plant	10 mg/l	
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Fresh water sediment	0,341 mg/kg dw	
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Marine water sediment	0,034 mg/kg dw	
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Soil	0,065 mg/kg dw	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Fresh water	0,003 mg/l	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Marine	0,0003 mg/l	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Sewage Treatment Plant	10 mg/l	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Fresh water sediment	0,294 mg/kg dw	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Marine water sediment	0,0294 mg/kg dw	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Soil	0,237 mg/kg dw	
Bisphenol F diglycidyl ether, reaction mass of isomers	PNEC	Intermittent Releases	0,0254 mg/l	
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	PNEC	Fresh water	0,0072 mg/l	
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	PNEC	Marine	0,72 µg/l	
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	PNEC	Sewage Treatment Plant	10 mg/l	
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	PNEC	Fresh water sediment	307,16 mg/kg dw	
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	PNEC	Marine water sediment	30,716 mg/kg dw	
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	PNEC	Soil	61,42 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. Splash goggles must meet EN 166 a/o ANSI Z87.1 standards. 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.

### 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. Use gloves approved to relevant standards (e.g. EN 374, ASTM F739). 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.

Material: 730 Camatril  
Minimum break through time: 480 min

Material: 898 Butoject  
Minimum break through time: 480 min  
Producer: This recommendation is valid only for our Product as delivered. If this product will be mixed with other substances you need to contact a supplier of CE approved protective gloves (e.g. KCL GmbH, D-36124 Eichenzell, Tel. 0049 (0) 6659 87300, Fax. 0049 (0) 6659 87155, email: [vertrieb@kcl.de](mailto:vertrieb@kcl.de)).

- 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. Where air-filtering respirators are suitable, select an appropriate combination of mask and filter, ABEK (EN14387) 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

- Physical state** : liquid  
**Color** : Clear
- Odor** : None.  
**Odor threshold** : Not available (not measured)  
**pH** : Not available (not measured)  
**Melting point/freezing point** : Not available (not measured)  
**Initial boiling point and boiling range** : Greater than 200 °C  
**Flash point** : Greater than 200 °C
- Evaporation rate** : Not available (not measured)  
**Upper/lower flammability or explosive limits** : **Lower:** Not available (not measured)  
**Upper:** Not available (not measured)  
**Vapor pressure** : Not available (not measured)

- Vapor density** : Not available (not measured)
- Relative density** : 1,15
  
- Density** : Approx. 1,100 - 1,200 g/cm<sup>3</sup>
  
- Solubility(ies)** : Not available (not measured)
- Solubility in water** : Not available (not measured)
- Partition coefficient: n-octanol/water** : Not applicable.
- Auto-ignition temperature** : Not available (not measured)
- Decomposition temperature** : Not available (not measured)
- Viscosity** : **Dynamic:** Approx. 3.000 - 4.000 mPa·s
  
- Kinematic:** Not available (not measured)
- Explosive properties** : Not available (not measured)
- Oxidizing properties** : 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** : Hazardous reactions or instability may occur under certain conditions of storage or use.
- 10.4 Conditions to avoid** : Caustic soda (sodium hydroxide) can induce vigorous polymerisation at temperatures around 200 °C. Heating may cause self-polymerisation. Avoid release to the environment.
- 10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
 strong oxidizing agents,  
 sodium hydroxide,  
 Strong Acids
- 10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Polymerises exothermically with amines, mercaptans and Lewis acids at ambient temperature and above. Polymerises in contact with caustic soda. Reacts exothermically with bases (eg caustic soda), ammonia, primary and secondary amines, alcohols, water and acids. Reacts with strong oxidising agents.

**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
bis-[4-(2,3-epoxipropoxy)phenyl]propane				

<b>Remarks - Oral:</b>	Not acutely toxic in multiple mouse and rat studies, LD50 > 2000 mg/kg of body weight.			
	LD50 Oral	Rat	11.400 mg/kg	-
<b>Remarks - Inhalation:</b>	Due to the very low vapor pressure, saturated atmosphere = 0.008 ppb, meaningful acute inhalation studies could not be conducted.			
<b>Remarks - Dermal:</b>	In a rat OECD no. 402 study the dermal LD50 was > 2000 mg/kg. In multiple rabbit acute dermal studies the LD50 was > 2000 mg/kg. One rabbit study reported an LD50 value of 23 grams/kg.			
	LD50 Dermal	Rat	2.000 mg/kg	-
Bisphenol F diglycidyl ether, reaction mass of isomers				
<b>Remarks - Oral:</b>	The acute oral median lethal dose (LD50) in the Fischer 344 strain rat was found to be greater than 2000 mg/kg bodyweight.			
	LD50 Oral	Rat	> 2.000 mg/kg	-
<b>Remarks - Inhalation:</b>	In accordance with REACH Annex VII, the acute inhalation study does not need to be conducted as oral and dermal studies are available for this substance.			
	LD50 Dermal	Rabbit	> 2.000 mg/kg	-
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.				
	LD50 Oral	Rat	17.100 mg/kg	-
	LD50 Oral	Rat	26.800 mg/kg	-
	LD50 Dermal	Rabbit	> 4.000 mg/kg	-

**Conclusion/Summary** : Not available

**Acute toxicity estimates**

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
bis-[4-(2,3-epoxipropoxy)phenyl]propane	11400 mg/kg	N/A	N/A	N/A	N/A
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	17100 mg/kg	N/A	N/A	N/A	N/A

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	1,5 - 2		-
	Skin - Edema 404 Acute Dermal Irritation/Corrosion	Rabbit	1,0 - 1,5		-
	Eyes - 405 Acute Eye Irritation/Corrosion	Rabbit	0		-
	Eyes - Redness of the conjunctivae	Rabbit	0,7		-
	Skin - Moderate irritant	Rabbit	-	24 hrs	-
	Skin - Severe irritant	Rabbit	-	24 hrs	-
	Eyes - Mild irritant	Rabbit	-		-
Bisphenol F diglycidyl ether, reaction mass of isomers	Skin - Erythema/Eschar 404 Acute Dermal	Rabbit	0,7	4 hrs	72 hrs

	Irritation/Corrosion				
	Skin - Edema 404 Acute Dermal Irritation/Corrosion	Rabbit	0	4 hrs	4 - 504 hrs
	Eyes - Cornea opacity 405 Acute Eye Irritation/Corrosion	Rabbit	0		1 - 168 hrs
	Eyes - Iris lesion 405 Acute Eye Irritation/Corrosion	Rabbit	0		1 - 168 hrs
	Eyes - Redness of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	0		1 - 168 hrs
	Eyes - Edema of the conjunctivae 405 Acute Eye Irritation/Corrosion	Rabbit	0		1 - 168 hrs
	Skin - Mild irritant	Rabbit	-	24 hrs	-
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	Skin - Primary dermal irritation index (PDII) OTS 798.4470 Acute Dermal Irritation	Rabbit	4,1	24 hrs	72 hrs
	Skin - Primary dermal irritation index (PDII) 404 Acute Dermal Irritation/Corrosion	Rabbit	5,75	24 hrs	72 hrs
	Eyes - Cornea opacity 405 Acute Eye Irritation/Corrosion	Rabbit	2		1 - 24 hrs
	Skin - Moderate irritant	Rabbit	-	24 hrs	-

**Conclusion/Summary**

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

**Sensitization**

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3- epoxipropoxy)phenyl]propan e	Skin	See Remarks	Sensitizing
<b>Remarks:</b>	In an OECD No. 429 mouse LLNA study the estimated EC3 was a concentration of 5.7% suggesting that BADGE is a moderate skin sensitizer in this test system. In an OECD No. 406 guinea pig Maximization study BADGE induced positive dermal reaction in 100% of the test animals at a 50% concentration challenge dose. Therefore, BADGE is an "Extreme" skin sensitizer under the conditions of this study. BADGE was also positive for skin sensitization in an OECD No. 406 guinea pig Buehler method study.		
Bisphenol F diglycidyl ether, reaction mass of isomers	Skin	Guinea pig	Sensitizing
<b>Remarks:</b>	The Buehler method was employed to evaluate the dermal sensitization potential of Liquid BPFDEGE Epoxy Resin. Ten male guinea pigs received 0.4 ml of test substance topically once a week for three weeks. A positive control of		

	Liquid BPFEDGE Epoxy Resin was used on ten additional animals. The challenge phase began two weeks later with an addition 5 animals exposed to 0.4 ml of Liquid BPFEDGE Epoxy Resin. The negative control had 0 positive reactions; the Liquid BPFEDGE Epoxy Resin had 4 of 10 with positive reactions and the positive control had 8 of ten positive reactions. Under the conditions of this study, the test material caused delayed hypersensitivity in guinea pigs.		
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Skin	Guinea pig	Sensitizing
<b>Remarks:</b>	Sensitizing in a U.S. E.P.A. OTS test guideline no. 870.2600 Buehler method study demonstrating positive dermal reactions in 20/20 guinea pigs. An extreme sensitizer in an O.E.C.D. test guideline no. 406 guinea pig Maximization study.		
	Skin	Guinea pig	Sensitizing OECD Test Guideline 406

**Conclusion/Summary**

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

**Mutagenicity**

Product/ingredient name	Test	Experiment	Result
bis-[4-(2,3-epoxipropoxy)phenyl]propane	-	Subject: See Remarks	Positive
<b>Remarks:</b>	BADGE induced gene-mutation in Ames/Salmonella tester strains TA1535 and TA100 in multiple studies. Generally, mutagenic activity was greater without liver S9 metabolic activation. Induced gene-mutation in L5178Y mouse lymphoma cells. Induced gene-mutation and chromosome damage in Chinese hamster V79 cells. Induced cell transformation in Syrian hamster BHK cells based on clonal growth in soft agar.		
	-	Subject: Mammalian-Animal	Negative
<b>Remarks:</b>	Did not induce evidence of chromosome damage in a mouse dominant lethal oral gavage study conducted up to a high dose level of 10 grams/kg and in a mouse micronucleus test conducted up to a high dose of 5000 mg/kg. Negative in a male mouse spermatocyte cytogenetic assay with treatment for 5 days by oral gavage up to a high dose of 3000 mg/kg. Did not induce an increase in the frequency of chromosome damage in a Chinese hamster bone marrow cytogenetic test by oral gavage up to a high dose of 3300 mg/kg. Failed to induce an increase of DNA strand breaks in rat liver cells following oral gavage treatment with 500 mg/kg as measured by alkaline elution.		
Bisphenol F diglycidyl ether, reaction mass of isomers	-	Subject: See Remarks Experiment: In vitro	Positive
<b>Remarks:</b>	Bisphenol F Diglycidylether induced gene-mutation in the Ames/Salmonella mutation test and chromosomal aberrations in human lymphocytes in multiple independent testing guideline GLP studies. Furthermore, the structural analog, Bisphenol A Diglycidylether (BPADGE) induce a significant increase of the mutant frequency in L5178Y mouse lymphoma cells in culture supporting the other findings. Therefore, BPFEDGE is genotoxic in vitro.		
	-	Subject: Mammalian-Animal Experiment: In vivo	Negative
<b>Remarks:</b>	When Bisphenol F Diglycidylether was evaluated for genotoxicity potential in multiple GLP in vivo assays including the mouse micronucleus, rat in vivo/in vitro UDS and MutaMouse tests no evidence of genotoxicity was observed. The results of other in vivo tests for genotoxicity also supported these negative findings for BPFEDGE. Therefore, Bisphenol F Diglycidylether is not genotoxic in vivo.		
oxirane, mono[(C12-14-	OECD-Guideline 471	Subject: Bacteria	Positive

alkyloxy)methyl] derivs.	(Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)	Experiment: In vitro	
<b>Remarks:</b>	Positive in an O.E.C.D. test guideline no. 471 bacterial mutation assay in Salmonella tester strain TA1535 with and without S9 metabolic activation. Negative in an O.E.C.D. test guideline no. 476 Chinese hamster ovary cell (CHO) HGPRT gene-mutation assay conducted up to cytotoxic does levels with and without S9 metabolic activation. Negative in a L5178Y mouse lymphoma cell TK gene-mutation assay tested up to cytotoxic dose levels.		
	474 Mammalian Erythrocyte Micronucleus Test	Subject: Mammalian-Animal Experiment: In vivo	Negative
<b>Remarks:</b>	Negative for micronucleus (chromosome damage) induction in an O.E.C.D. test guideline no. 474 mouse study conducted up to a high I.P. injection dose of 4.0 grams/kg. Negative in a rat bone marrow chromosome aberration study conducted in a manner similar to O.E.C.D. test guideline no. 475 by I.P. injection up to a high dose of approximately 700 mg/kg.		
	476 In vitro Mammalian Cell Gene Mutation Test	Subject: Mammalian-Animal Experiment: In vitro	Negative
	479 Genetic Toxicology: In vitro Sister Chromatid Exchange Assay in Mammalian Cells	Subject: Mammalian-Animal Experiment: In vitro	Negative
	475 Mammalian Bone Marrow Chromosomal Aberration Test	Subject: Mammalian-Animal Experiment: In vitro	Negative

**Conclusion/Summary** : Not available

### Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Negative - Unreported - NOEL	See Remarks		
<b>Remarks:</b>	In a rat oral gavage OECD no. 453 study there was no evidence of carcinogenicity up to the high dose level of 100 mg/kg/day. OECD Test Guideline no. 453 dermal exposure studies were conducted on male mice and female rats. No evidence of carcinogenicity was observed in male mice treated up to the high dose of 100 mg/kg/day and female rats exposed up to a high dose level of 1000 mg/kg/day.			
Bisphenol F diglycidyl ether, reaction mass of isomers	Negative - Dermal - NOEL	Mouse		
<b>Remarks:</b>	Bisphenol F Diglycidylether (BPFDE) was evaluated for the potential to induce local and systemic tumors in a mouse skin-painting 24 month study. Dermal treatment of mice twice a week with up to a 10% solution of Bisphenol F Diglycidylether (BPFDE) did not induce any adverse findings of tumor incidence or local dermal effects. Therefore, BPFDE is not a mouse carcinogen under the conditions of this study. The NOAEL was estimated to be approximately 800 mg/kg/day.			

**Conclusion/Summary** : Not available

### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	-	Positive	-	Rat	Oral: 10 mg/kg/d Repeated dose 443 Extended	-

					One-Generation Reproductive Toxicity Study	
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**Conclusion/Summary** : Not available

**Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-epoxipropoxy)phenyl]propane	Negative - Oral	Rabbit	-	-
<b>Remarks:</b>	BADGE did not induce any evidence of development toxicity in rats and rabbits exposed by oral gavage or in rabbits treated by the dermal route in OECD Test Guideline no. 414 GLP studies. The oral gavage studies were conducted up to a high dose level of 180 mg/kg/day that produced maternal toxicity based on decreased body weight gain. The rabbit dermal study was conducted up to a high dose of 300 mg/kg/day that induced maternal toxicity based on reduced body weight gain.			
Bisphenol F diglycidyl ether, reaction mass of isomers	Negative - Dermal	Rabbit	-	-
<b>Remarks:</b>	Diglycidyl ether of bisphenol A (DGEBA) was tested for its embryo/fetal toxicity and teratogenicity in pregnant rabbits. DGEBA was applied daily to the backs (clipped free of hair) of New Zealand White rabbits at dose levels of 0 (polyethylene glycol, vehicle control), 30, 100 or 300 mg/kg body weight/day at a dose volume of 1 ml/kg body weight/day on days 6 through 18 of gestation. Twenty six inseminated rabbits were used per dose group resulting in a minimum of 20 pregnant rabbits per exposure level. An occlusive bandage of absorbent gauze and non-absorbent cotton was placed over the dosing area on the back of each rabbit. The bandage was held in place for a minimum of 6 hours/day using a lycra/spandex jacket. Following the occlusion period the bandage and jacket were removed. Maternal toxicity was observed among pregnant rabbits in the 300 mg/kg dose group as evidenced by moderate to severe erythema, fissures, hemorrhage and slight edema at the exposure site. Similar, but less severe skin lesions were observed in pregnant rabbits in the 100 mg/kg/day exposure group. Skin effects (slight erythema) observed in pregnant rabbits in the 30 mg/kg/day dose group were not considered toxicologically significant. No evidence of embryo/fetal toxicity or teratogenicity was observed at any dose level resulting in a embryo/fetal no-observed-effect level of 300 mg/kg body weight/day.			
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Negative - Dermal OECD Test Guideline 414	Rat	-	-
<b>Remarks:</b>	In a U.S. E.P. A. OTS 798.4420 and O.E.C.D. test guideline no. 414 developmental toxicity study conducted by the dermal route in the rat, the NOAEL for both maternal and developmental adverse effects was greater than the high dose level of 200 mg/kg/day.			

**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 likely routes of exposure** : Not available

**Potential acute health effects**

**Eye contact** : Causes serious eye irritation. Causes serious eye irritation.  
**Inhalation** : No known significant effects or critical hazards. No known significant effects or critical hazards.  
**Skin contact** : Causes skin irritation. May cause an allergic skin reaction. Causes skin irritation. May cause an allergic skin reaction.  
**Ingestion** : No known significant effects or critical hazards. No known significant effects or critical hazards.

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

**Eye contact** : Adverse symptoms may include the following: pain or irritation, 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: irritation, redness, reduced fetal weight, increase in fetal deaths, skeletal malformations  
**Ingestion** : Adverse symptoms may include the following: 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**

Product/ingredient name	Result	Species	Dose	Exposure
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	NOAEL Dermal	Rat	1 mg/kg/d Repeated dose 411 Subchronic Dermal Toxicity: 90-day Study	90 days Repeated dose; 5 days per week Repeated dose

**Conclusion/Summary** : Not available

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. 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** : May damage fertility.

**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
bis-[4-(2,3-epoxipropoxy)phenyl]propane			
	Acute LC50 1,3 mg/l - 203 Fish, Acute Toxicity Test	Fish	96 h
	Acute LC50 1,3 mg/l - 203 Fish, Acute Toxicity Test	Fish	96 h
	Acute EC50 2,1 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Water flea	48 h
	Acute LC50 > 11 mg/l -	Algae	72 h
	Acute LC50 > 11 mg/l	Algae	72 h
	Chronic NOEC 0,3 mg/l semi- static test 211 Daphnia Magna Reproduction Test	Water flea	21 d
Bisphenol F diglycidyl ether, reaction mass of isomers			
	Acute LC50 2,54 mg/l	Fish	96 h
	Acute EC50 2,55 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Water flea	48 h
	Acute EC50 > 1.000 mg/l 201 Alga, Growth Inhibition Test	Algae	72 h
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.			
	Acute LC50 > 1,8 g/l - 203 Fish, Acute Toxicity Test	Rainbow trout,donaldson trout	96 h
	Acute LC50 > 5,0 g/l - 203 Fish, Acute Toxicity Test	Bluegill	96 h
	Acute LC50 > 100,0 mg/l - 203 Fish, Acute Toxicity Test	Rainbow trout,donaldson trout	96 h
	Acute EC50 7,2 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Water flea	48 h
	Acute EC50 844 mg/l - 201 Alga, Growth Inhibition Test	Algae	72 h
	Acute EC50 844 mg/l 201 Alga, Growth Inhibition Test	Algae	72 h
	Acute EC50 > 100 mg/l Fresh water OECD-Guideline No. 209	activated sludge, domestic (adaptation not specified)	3 h

**Conclusion/Summary** : Not available

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
bis-[4-(2,3-epoxipropoxy)phenyl]propane	OECD-Guideline 301 F (Manometric Respirometry Test)	6 - 12 % - No biodegradation - 28 d	-	Activated sludge
<b>Remarks:</b>	The level of biodegradation in an "enhanced" OECD 301F study was 5% within			

	the 28 day contact period. Biodegradation reached 6 - 12 % after 28 days of contact in an OECD test guideline no. 301B study. Therefore, BADGE is not readily biodegradable under the conditions of the studies.			
Bisphenol F diglycidyl ether, reaction mass of isomers	OECD-Guideline 301 B (CO2 Evolution Test)	16 % - No biodegradation - 28 d	10 mg/l	Activated sludge
<b>Remarks:</b>	Bisphenol F Diglycidylether was not readily biodegradable under the conditions of the O.E.C.D. 301 B and 301 D screening studies. The maximum percent biodegradation observed in one of the O.E.C.D. 301 B studies was 16% for 10 mg/L at 28 days of contact.			
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	OECD-Guideline 301 F (Manometric Respirometry Test)	87 % - Readily biodegradable - 28 d	-	Activated sludge

**Conclusion/Summary** : Not available

### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis-[4-(2,3-epoxipropoxy)phenyl]propane	2,64 - 3,78	3 - 31 31,00	low
Bisphenol F diglycidyl ether, reaction mass of isomers	3,3	150	low
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	3,77	160 - 263 160,00	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.  
 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>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	9	III
<b>RID</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	9	III
<b>ICAO/IATA</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	9	III
<b>IMO/IMDG</b>	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	9	III

### **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.

**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.

None required.

#### Substances of very high concern

None required.

None required.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles** : Restricted to professional users.

### 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)

None required.

### Seveso Directive

This product is controlled under the Seveso Directive.

### Danger criteria

Category
E2

### National regulations

Product name	List name	Name on list	Classification	Notes
oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	-	-	Carc	Part of these derivatives are only classified as carcinogenic if the content of benzene > 0.1% and/or benzo(a)pyrene > 0.005% or 1,3-butadiene > 0,1% or DMSO-extract > 3%. Please refer to Publicatieblad L381 of December 31th, 1994: the 21st amendment of Directive

				67/548/EEC or later amendments of this Directive.
	-	-	MUT	Substances also listed on the "SZW-lijst van kankerverwekken de stoffen en processen" These substances are not classified as mutagenic if can be shown that the content of 1,3-butadiene is less than 0.1%. For more information see OJ L152 of April 30th, 2004: the 29th adaptation of Directive 67/548/EEC.

**Water Discharge Policy (ABM)** : Z(2) Biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/ reprotoxicity/ bioaccumulative potential or toxicity).  
Decontamination effort: Z

### 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 (KECI) 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 active or exempted.  
Taiwan inventory (TCSI). All components are listed 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
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
Aquatic Chronic 2, H411	Calculation method
Skin Irrit. 2, H315	Calculation method

**Full text of abbreviated H statements**

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H360F	May damage fertility.
H411	Toxic to aquatic life with long lasting effects.

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

Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 1B	TOXIC TO REPRODUCTION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Irrit. 2	SKIN CORROSION/IRRITATION
Skin Sens. 1	SKIN SENSITIZATION
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM)

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**Notice to reader**

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