

Epoxy Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830

SAFETY DATA SHEET

FOR PROFESSIONAL and/or INDUSTRIAL USE ONLY

EPIKOTETM RESIN MGS LR 635

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

1.1 Product identifier

Product name SDS Number	:	EPIKOTE™ RESIN MGS LR 635 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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier/Impor ter	:	Westlake Epoxy B.V. Seattleweg 17 3195 ND Pernis - Rotterdam The Netherlands
Contact person	:	epoxyservice@westlake.com
Telephone	:	General information +31 (0)10 295 4000
1.4 Emergency telephone number		
Supplier Telephone number	:	CARECHEM 24 +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 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 Hazard statements	:	Warning Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
Precautionary statements		
Prevention	:	Wear protective gloves. Wear eye or face protection. Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling.
Response	:	Collect spillage. 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	:	Not applicable.
Disposal	:	Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	:	bis-[4-(2,3-epoxipropoxi)phenyl]propane Bisphenol F diglycidyl ether, reaction mass of isomers oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Supplemental label elements	:	UFI: H049-UJ5M-730W-R8G4

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.
Other hazards which do not result in classification	:	

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture			
Product/ingredient name	Ide n tifiers	%	<u>Regulation (EC) No.</u> <u>1272/2008 [CLP]</u>	Туре
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	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	[1]
Bisphenol F diglycidyl ether, reaction mass of isomers	RRN : 01-2119454392- 40-0000 EC : 701-263-0	>= 10 - <= 25	Skin Irrit. 2, H315 Skin Sens. 1, 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	[1]

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

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.

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 adverse health effects persist or are severe. 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. Remove victim
		to fresh air and keep at rest in a position comfortable for breathing. If
		material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person
		feels sick as vomiting may be dangerous. Do not induce vomiting
		unless directed to do so by medical personnel. If vomiting occurs, the
		head should be kept low so that vomit does not enter the lungs. Get
		medical attention if adverse health effects persist or are severe. 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. 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.
		thoroughly with water before removing it, or wear gioves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact Inhalation Skin contact Ingestion	:	Causes serious eye irritation. No known significant effects or critical hazards. Causes skin irritation. May cause an allergic skin reaction. 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	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: irritation redness
Ingestion	:	No specific data.
4.3 Indication of any immediate	medical a	attention and special treatment needed
Notes to physician	:	Treat symptomatically. Contact poison treatment specialist

immediately if large quantities have been ingested or inhaled.Specific treatmentsNo specific treatment.

SECTION 5: Firefighting measures

5.1	Extinguishing	media
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Suitable extinguishing media Unsuitable extinguishing media	:	Use dry chemical, CO2, alcohol-resistant foam or water spray (fog). Do not use water jet.
5.2 Special hazards arising from the s	subst	tance or mixture
Hazards from the substance or mixture Hazardous thermal	:	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. Decomposition products may include the following materials:
decomposition products		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 For emergency responders	:	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. If specialised clothing is required to deal with the spillage, take note
For emergency responders	•	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 environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

6.3 Methods and material for containment and cleaning up

Small spill:Stop leak if without risk. Move containers from spill area. Dilute
with water and mop up if water-soluble. Alternatively, or if water-

		insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses,
		basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.
6.4 Reference to other sections	:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment.
		See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	:	Put on appropriate personal protective equipment (see section 8 of SDS). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Avoid release to the environment. 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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

7.3 Specific end use(s)

Recommendations	:	Not available
Industrial sector specific	:	Not available
solutions		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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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/ingredie	Туре	Exposure	Value	Population	Effects
nt name	DNE			XX7 1	
bis-[4-(2,3-	DNEL	Short term	8,3 mg/kg	Workers	Systemic
epoxipropoxi)phe		Dermal	bw/day		
nyl]propane	DNE	01	10.0 / 3	XX7 1	
bis-[4-(2,3-	DNEL	Short term	12,3 mg/m ³	Workers	Systemic
epoxipropoxi)phe		Inhalation			
nyl]propane	DNE	T .	0.0 //	XX 7 1	
bis-[4-(2,3-	DNEL	Long term	8,3 mg/kg	Workers	Systemic
epoxipropoxi)phe		Dermal	bw/day		
nyl]propane	DNE	T I	10.0 / 3	XX 7 1	
bis-[4-(2,3-	DNEL	Long term	12,3 mg/m ³	Workers	Systemic
epoxipropoxi)phe		Inhalation			
nyl]propane	DNE				
bis-[4-(2,3-	DNEL	Short term	3,6 mg/kg	General	Systemic
epoxipropoxi)phe		Dermal	bw/day	population	
nyl]propane	DNE	01	0.75 (3		
bis-[4-(2,3-	DNEL	Short term	0,75 mg/m ³	General	Systemic
epoxipropoxi)phe		Inhalation		population	
nyl]propane	DUF		0.75 /1		
bis-[4-(2,3-	DNEL	Short term	0,75 mg/kg	General	Systemic
epoxipropoxi)phe		Oral	bw/day	population	
nyl]propane	DUF				
bis-[4-(2,3-	DNEL	Long term	3,6 mg/kg	General	Systemic
epoxipropoxi)phe		Dermal	bw/day	population	
nyl]propane	DNEL	T (0.75 / 3	General	<u> </u>
bis-[4-(2,3-	DNEL	Long term	0,75 mg/m ³		Systemic
epoxipropoxi)phe		Inhalation		population	
nyl]propane	DNEI	Long toma	0.75 mg/lrg	General	Sustamia
bis-[4-(2,3-	DNEL	Long term Oral	0,75 mg/kg		Systemic
epoxipropoxi)phe		Oral	bw/day	population	
nyl]propane	DNE	Class of the same	9.2	XXZ = siles see	L1
Bisphenol F	DNEL	Short term	8,3 μg/cm ²	Workers	Local
diglycidyl ether, reaction mass of		Dermal			
isomers Diaghan al E	DNE	T t	104.15	XXZ = siles set	Causta and a
Bisphenol F	DNEL	Long term	104,15 mg/kg	Workers	Systemic
diglycidyl ether, reaction mass of		Dermal	bw/day		
isomers Diamhanal E	DNEI	Long to me	20.20 m/3	Worker	Sustamia
Bisphenol F	DNEL	Long term	29,39 mg/m ³	Workers	Systemic

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diglycidyl ether, reaction mass of isomers		Inhalation			
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 ³	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	3,6 mg/m ³	Workers	Systemic
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	DNEL	Long term Inhalation	0,87 mg/m ³	General population	Systemic
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	DNEL	Long term Dermal	1,0 mg/kg bw/day	Workers	Systemic
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	DNEL	Long term Dermal	0,5 mg/kg bw/day	General population	Systemic
oxirane, mono[(C12-14- alkyloxy)methyl] derivs. DNEL/DMEL Su	DNEL	Long term Oral : Not ava	0,5 mg/kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Fresh water	6 µg/l	
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	0,996 mg/kg dw	Î
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Marine water sediment	0,1 mg/kg dwt	
bis-[4-(2,3- epoxipropoxi)phenyl]prop ane	PNEC	Soil	0,196 mg/kg dw	
Bisphenol F diglycidyl	PNEC	Fresh water	0,003 mg/l	

ether, reaction mass of			
isomers			
Bisphenol F diglycidyl	PNEC	Marine	0,0003 mg/l
ether, reaction mass of			
isomers			
Bisphenol F diglycidyl	PNEC	Sewage Treatment Plant	10 mg/l
ether, reaction mass of		C .	
isomers			
Bisphenol F diglycidyl	PNEC	Fresh water sediment	0,294 mg/kg dw
ether, reaction mass of			
isomers			
Bisphenol F diglycidyl	PNEC	Marine water sediment	0,0294 mg/kg dv
ether, reaction mass of			
isomers			
Bisphenol F diglycidyl	PNEC	Soil	0,237 mg/kg dw
ether, reaction mass of			
isomers			
Bisphenol F diglycidyl	PNEC	Intermittent Releases	0,0254 mg/l
ether, reaction mass of			
isomers			
oxirane, mono[(C12-14-	PNEC	Fresh water	0,0072 mg/l
alkyloxy)methyl] derivs.			
oxirane, mono[(C12-14-	PNEC	Marine	0,72 µg/l
alkyloxy)methyl] derivs.			
oxirane, mono[(C12-14-	PNEC	Sewage Treatment Plant	10 mg/l
alkyloxy)methyl] derivs.			
oxirane, mono[(C12-14-	PNEC	Fresh water sediment	307,16 mg/kg dv
alkyloxy)methyl] derivs.			
oxirane, mono[(C12-14-	PNEC	Marine water sediment	30,716 mg/kg dv
alkyloxy)methyl] derivs.			
oxirane, mono[(C12-14-	PNEC	Soil	61,42 mg/kg dw
alkyloxy)methyl] derivs.			
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 contro	ls :	No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

Individual protection measures

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Hygiene measures Eye/face protection	:	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. 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.
<u>Skin protection</u>		
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). 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).
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 Environmental exposure controls	:	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) Emissions from ventilation or work process equipment should be
General protective measures	:	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. Chemical splash goggles or face shield. Chemical-resistant gloves. Suitable protective footwear. Light protective clothing. Eyewash
		Surable protective tootwear. Eight 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	:	Greater than 200 °C
range		
Flash point	:	Greater than 200 °C
Evaporation rate	:	Not available (not measured)
Upper/lower flammability or	:	Lower: Not available (not measured)
explosive limits		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/cm3
·		
Solubility(ies)	:	Not available (not measured)
Solubility in water	:	Not available (not measured)
Partition coefficient: n-	:	Not available (not measured)
octanol/water		
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)
Change hope act	•	not avalable (not neustred)

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	:	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,

strong acids,

10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure				
bis-[4-(2,3-epoxipropoxi)phenyl]propane								
	LD50 Oral	Rat	11.400 mg/kg	-				
Remarks - Oral:	Not acutely toxic	Not acutely toxic in multiple mouse and rat studies, LD50 > 2000 mg/kg of body						
	weight.							
Remarks - Inhalation:	Due to the very lo	ow vapor pressure, sat	urated atmosphere = (0.008 ppb,				
	meaningful acute	inhalation studies cou	ald not be conducted.					
Remarks - Dermal:		. 402 study the dermal						
		al studies the LD50 w		ne rabbit study				
		value of 23 grams/kg		_				
	LD50 Dermal	Rat	2.000 mg/kg	-				
Bisphenol F diglycidyl ether	r, reaction mass of is	somers						
	LD50 Oral	Rat	> 2.000 mg/kg	-				
Remarks - Oral:		dian lethal dose (LD5	,	strain rat was found				
	to be greater than	to be greater than 2000 mg/kg bodyweight.						
Remarks - Inhalation:	In accordance wit	In accordance with REACH Annex VII, the acute inhalation study does not need						
	to be conducted a	s oral and dermal stud	lies are available for t	his substance.				
	LD50 Dermal	Rabbit	> 2.000 mg/kg	-				
oxirane, mono[(C12-14-alky	loxy)methyl] derive	5.						
	LD50 Oral	Rat	17.100 mg/kg	-				
	LD50 Oral	Rat	26.800 mg/kg	-				
	LD50 Dermal	Rabbit	> 4.000 mg/kg	-				

Acute toxicity estimates

No data available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
bis-[4-(2,3-	Skin -	Rabbit	1,5 - 2		-
epoxipropoxi)phenyl]propane	Erythema/Eschar				
	404 Acute Dermal				
	Irritation/Corrosion				
	Skin - Edema 404	Rabbit	1,0 -		-
	Acute Dermal		1,5		
	Irritation/Corrosion				
	eyes 405 Acute	Rabbit	0		-
	Eye				
	Irritation/Corrosion				
	eyes - Redness of	Rabbit	0,7		-
	the conjunctivae				
	Skin - Moderate	Rabbit		24 hrs	-
	irritant				
	Skin - Severe	Rabbit		24 hrs	-

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	irritant				
	eyes - Mild irritant	Rabbit			-
Bisphenol F diglycidyl ether, reaction mass of isomers	Skin - Erythema/Eschar 404 Acute Dermal Irritation/Corrosion	Rabbit	0,7	4 hrs	72 hrs
	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	-
	:				

Sensitization

Product/ingredient name	Route of exposure	Species	Result		
bis-[4-(2,3-	Skin	See Remarks	Sensitizing		
epoxipropoxi)phenyl]propane					
Remarks:	In an OECD No. 429 mouse LLN	•			
	concentration of 5.7% suggesting	g that BADGE is a r	noderate skin sensitizer in		
	this test system. In an OECD No	. 406 guinea pig M	aximization 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,	Skin	Guinea pig	Sensitizing		
reaction mass of isomers					
Remarks:	The Buehler method was employed to evaluate the dermal sensitization				
	potential of Liquid BPFDGE 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 BPFDGE 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 BPFDGE Epoxy Resin. The negative control had 0 positive reactions; the Liquid BPFDGE Epoxy Resin had 4 of 10 with positive reactions and the positive control had 8 of ten positive reactions. Under the conditions of				
	and the positive control had 8 of ten positive feactions. Under the conditions of				
	this study, the test material caused delayed hypersensitivity in guinea pigs.				
oxirane, mono[(C12-14-	Skin	Guinea pig	Sensitizing		
alkyloxy)methyl] derivs.					
Remarks:	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		

Mutagenicity

Product/ingredient name	Test	Experiment	Result			
bis-[4-(2,3-	-	; See Remarks	Positive			
epoxipropoxi)phenyl]propan						
e						
Remarks:	BADGE induced gene-mutation	in Ames/Salmonella	tester strains TA1535 and			
	TA100 in multiple studies. Gene					
	liver S9 metabolic activation. In	duced gene-mutatio	n in L5178Y mouse			
	lymphoma cells. Induced gene-r					
	hamster V79 cells. Induced cell		yrian hamster BHK cells			
	based on clonal growth in soft ag					
	-	; Mammalian-	Negative			
		Animal				
Remarks:	Did not induce evidence of chron					
	oral gavage study conducted up					
	mouse micronucleus test conduc					
	in a male mouse spermatocyte cy					
	oral gavage up to a high dose of					
	frequency of chromosome damag					
	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,	treatment with 500 mg/kg as mea	In vitro; See	Positive			
reaction mass of isomers	-	Remarks	FOSITIVE			
Remarks:	Bisphanol E Diglygidylether indu		in the Amer/Salmonalla			
Kennar KS:	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, BPFD0					
	-	In vivo;	Negative			
		Mammalian-	6			
		Animal				
Remarks:	When Bisphenol F Diglycidyleth	er was evaluated fo	r genotoxicity potential in			
	multiple GLP in vivo assays incl					
	vitro UDS and MutaMouse tests	no evidence of gene	otoxicity was observed.			
	The results of other in vivo tests for genotoxicity also supported these negative					
	findings for BPFDGE. Therefore, Bisphenol F Diglycidylether is not genotoxic					
	in vivo.	1				
oxirane, mono[(C12-14-	OECD-Guideline 471 (Genetic	In vitro;	Positive			
alkyloxy)methyl] derivs.	Toxicology: Salmonella	Bacteria				
	typhimurium, Reverse					
	Mutation Assay)					

Remarks:		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 guid	leline no. 476 Chine	se hamster ovary cell				
	(CHO) HGPRT gene-mutation as	ssay conducted up to	o cytotoxic does levels				
	with and without S9 metabolic ac	tivation. Negative	in a L5178Y mouse				
	lymphoma cell TK gene-mutation	•					
	474 Mammalian Erythrocyte	In vivo;	Negative				
	Micronucleus Test	Mammalian-	_				
		Animal					
Remarks:	Negative for micronucleus (chron	nosome damage) in	duction 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	In vitro;	Negative				
	Gene Mutation Test	Mammalian-					
		Animal					
	479 Genetic Toxicology: In	In vitro;	Negative				
	vitro Sister Chromatid	Mammalian-					
	Exchange Assay in Mammalian	Animal					
	Cells						
	475 Mammalian Bone Marrow	In vitro;	Negative				
	Chromosomal Aberration Test	Mammalian-					
		Animal					

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure	
bis-[4-(2,3-	Negative -	See Remarks			
epoxipropoxi)phenyl]propane	Unreported -				
	NOEL				
Remarks:	In a rat oral gav	age OECD no. 45	53 study there was	s no evidence of	
	carcinogenicity	up to the high do	se level of 100 mg	g/kg/day. OECD Test	
	Guideline no. 4	53 dermal exposu	re studies were co	onducted on male mice	
	and female rats.	. No evidence of	carcinogenicity w	as observed in male	
	mice treated up to the high dose of 100 mg/kg/day and female rats exposed				
	up to a high dos	se level of 1000 m	ng/kg/day.		
Bisphenol F diglycidyl ether,	Negative -	Mouse			
reaction mass of isomers	Dermal -				
	NOEL				
Remarks:	Bisphenol F Dig	glycidylether (BP	FDGE) was evalu	ated 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 (BPFDGE) did not induce any adverse				
	findings of tumor incidence or local dermal effects. Therefore, BPFDGE is				
	not a mouse carcinogen under the conditions of this study. The NOAEL				
	was estimated to	o be approximatel	y 800 mg/kg/day		

Reproductive toxicity

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure	
bis-[4-(2,3-	Negative -	Rabbit	-	-	
epoxipropoxi)phenyl]propane	Oral				
Remarks:	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				

	1	- h'-h d 11 -	£ 100			
	conducted up to a high dose level of 180 mg/kg/day that produced maternal toxicity base on decreased body weight gain. The rabbit dermal study was					
	conduced up to a high dose of 300 mg/kg/day that induced maternal					
		n reduced body wei	ght gain.			
Bisphenol F diglycidyl ether,	Negative -	Rabbit	-	-		
reaction mass of isomers	Dermal					
Remarks:	Diglycidyl ether	r of bisphenol A (D	GEBPA) was to	ested for its embryo/fetal		
	toxicity and tera	atogenicity in pregn	ant rabbits. DG	EBPA was applied daily		
	to the backs (cli	pped free of hair) o	f New Zealand	White rabbits at dose		
	levels of 0 (poly	ethylene glycol, ve	hicle control),	30, 100 or 300 mg/kg		
	body weight/day	y at a dose volume	of 1 ml/kg body	y weight/day on days 6		
	through 18 of g	estation. Twenty six	inseminated ra	abbits were used per dose		
				its per exposure level.		
	An occlusive ba	indage of absorbent	t 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 toxicicologically					
				or teratogenicity was		
				etal no-observed-effect		
		/kg body weight/da				
oxirane, mono[(C12-14-	Negative -	Rat	-	-		
alkyloxy)methyl] derivs.	Dermal					
	OECD Test					
	Guideline 414					
Remarks:		. OTS 798.4420 an	dOECD test	guideline no 414		
Keniar KS.				0		
	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.					
	than the fight ut	se lever of 200 mg/	ng/uay.			

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 : Not available exposure

Potential acute health effects

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

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Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following:
		irritation
		redness
Ingestion	:	No specific data.

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-	NOAEL	Rat	1 mg/kg/d	90 days 5 days per
alkyloxy)methyl] derivs.	Dermal		Repeated dose	week
			411 Subchronic	
			Dermal	
			Toxicity: 90-day	
			Study	

General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
bis-[4-(2,3-epoxipropoxi)phen	yl]propane		· _
	Acute LC50 1,3 mg/l - 203 Fish,	Fish - Fish	96 h
	Acute Toxicity Test		
	Acute EC50 2,1 mg/l - 202 Daphnia	Aquatic invertebrates.	48 h
	sp. Acute Immobilization Test and	Water flea	
	Reproduction Test		
	Acute LC50 $> 11 \text{ mg/l}$ -	Aquatic plants - Algae	72 h
	Chronic No-observable-effect-	Aquatic invertebrates.	21 d
	concentration 0,3 mg/l semi-static test	Water flea	
	211 Daphnia Magna Reproduction		
	Test		
Bisphenol F diglycidyl ether,	reaction mass of isomers		
	Acute LC50 2,54 mg/l -	Fish - Fish	96 h
	Acute EC50 2,55 mg/l - 202 Daphnia	Aquatic invertebrates.	48 h
	sp. Acute Immobilization Test and	Water flea	
	Reproduction Test		
	Acute EC50 > $1.000 \text{ mg/l} - 201 \text{ Alga}$,	Aquatic plants - Algae	72 h

	Growth Inhibition Test		
oxirane, mono[(C12-14-alkylox	y)methyl] derivs.		
	Acute LC50 > 1,8 g/l - 203 Fish, Acute Toxicity Test	Fish - Rainbow trout,donaldson trout	96 h
	Acute LC50 > 5,0 g/l - 203 Fish, Acute Toxicity Test	Fish - Bluegill	96 h
	Acute LC50 > 100,0 mg/l - 203 Fish, Acute Toxicity Test	Fish - Rainbow trout,donaldson trout	96 h
	Acute EC50 7,2 mg/l - 202 Daphnia sp. Acute Immobilization Test and Reproduction Test	Aquatic invertebrates. Water flea	48 h
	Acute EC50 844 mg/l - 201 Alga, Growth Inhibition Test	Aquatic plants - Algae	72 h
	Acute EC50 > 100 mg/l Fresh water OECD-Guideline No. 209	Micro-organism - activated sludge, domestic (adaptation not specified)	3 h

12.2 Persistence and degradability

Product/ingredient	Test	Result	Dose	Inoculum
name				
bis-[4-(2,3-	OECD-	6 - 12 % - 28 d		Activated sludge
epoxipropoxi)phenyl]	Guideline 301 F	/		
propane	(Manometric			
	Respirometry			
	Test)			
Remarks:	The level of biode	gradation in an "enha	nced" OECD 301F	study was 5% within
	the 28 day contac	t period. Biodegradati	on reached 6 - 12	% after 28 days of
	contact in an OEC	D test guideline no. 3	01B study. Therei	fore, BADGE is not
	readily biodegrad	able under the conditi	ons of the studies.	
Bisphenol F	OECD-	16 % - 28 d	10 mg/l	Activated sludge
diglycidyl ether,	Guideline 301 B			
reaction mass of	(CO2 Evolution			
isomers	Test)			
Remarks:				e under the conditions of
		B and 301 D screenin	-	-
	0	served in one of the C	D.E.C.D. 301 B stu	dies was 16% for 10
	mg/L at 28 days of	of contact.		
oxirane, mono[(C12-	OECD-	87 % - 28 d		Activated sludge
14-alkyloxy)methyl]	Guideline 301 F			
derivs.	(Manometric			
	Respirometry			
	Test)			

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
bis-[4-(2,3-	2,64 - 3,78	3 - 31 31,00	low
epoxipropoxi)phenyl]propane			
Bisphenol F diglycidyl ether,	3,3	150 150,00	low
reaction mass of isomers			
oxirane, mono[(C12-14-	3,77	160 - 263 160,00	low
alkyloxy)methyl] derivs.			

12.4 Mobility in soil

Soil/water partition coefficient (KOC)	:	Not available
Mobility	:	Not available
12.5 Results of PBT and vPvB assessme	ent	
РВТ	:	P: Not available B: Not available T: Not available
vPvB	:	vB: Not available vP: Not available
12.6 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

Regulatory information	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
ADR/ADN	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	9	Ш

RID	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)		9	III
ICAO/IATA	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)		9	Ш
IMO/IMDG	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)		9	ш
14.5. Environm	nental hazar	ds			
Environmentall	y hazardous a	and/or Marine Pollutant	:	Yes.	¥2

14.6 Special precautions for user

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

SECTION 15: Regulatory information

:

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

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

Carcinogen: Not listed <u>Mutagen</u>: Not listed <u>Toxic to reproduction</u>: Not listed <u>PBT</u>: Not listed <u>vPvB</u>: Not listed

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).
- Aerosol dispensers : Annex XVII - Restrictions on the : manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

:

Not applicable.

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-	ZNL_CMR		Carcinogenic	Part of these
14-alkyloxy)methyl]			substances	derivates are only
derivs.				classified as
				carcinogenic if the
				content of benzene
				> 0.1% and/or
				benzoapyrene>
				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.
	ZNL_CMR			Substances also
				listed on the
			Mutagenic substances	"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
Weter D'achara Dal'a				67/548/EEC.

Water Discharge Policy (ABM)

A(2) Toxic for aquatic organisms, may have long-term hazardous effects in aquatic environment. Decontamination effort: A

International regulations

International lists

: Australia inventory (AICS) All components are listed or exempted. Canada inventory All components are listed or exempted. Japan inventory (ENCS) All components are listed or exempted.

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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.

Chemical Weapons Convention : Not listed List Schedule I Chemicals : Not listed **Chemical Weapons Convention** : Not listed List Schedule II Chemicals : Not listed **Chemical Weapons Convention** Not listed : List Schedule III Chemicals : Not listed **15.2** Chemical Safety Assessment : This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

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

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

:

Classification	Justification
Eye Dam./Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Aquatic Chronic 2, H411	Calculation method
Skin Corr./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.
H411	Toxic to aquatic life with long lasting effects.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Full text of classifications : [CLP/GHS]		Skin Corr./Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
		Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
		Eye Dam./Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
		Aquatic Chronic 2, H411	AQUATIC HAZARD (LONG- TERM) - Category 2
		Skin Corr./Irrit. 2, H315	SKIN CORROSION/IRRITATION - Category 2
		Skin Sens. 1, H317	SKIN SENSITISATION - Category 1
		Eye Dam./Irrit. 2, H319	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
		Aquatic Chronic 2, H411	AQUATIC HAZARD (LONG- TERM) - Category 2
Date of printing Date of issue/Date of revision Date of previous issue Version	::	26.07.2022 16.07.2021 4.0	

Notice to reader

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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