



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

EPIKOTETM Resin MGS LR 285

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

1.1 Product identifier

Product name SDS Number	: :	EPIKOTE™ Resin MGS LR 285 16S-00006
Product type	:	Epoxy Resin
Other means of identification	:	UFI: RYCF-JSKH-2FC4-C1J2

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

Product use

Binder

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	:	epoxyservice@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

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2.1 Classification of the substance or mixture

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

Acute Tox. 4 H302 Skin Corr./Irrit. 2 H315 Eye Dam./Irrit. 2 H319 Skin Sens. 1 H317 Aquatic Chronic 2 H411

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

2.2 Label elements

Hazard pictograms

Signal word Hazard statements Warning

Warning
 Harmful if swallowed.
 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. Do not eat, drink or smoke when using this product. 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 1,2,3-Propanetriol, polymer with 2-(chloromethyl)oxirane

Supplemental label elements

Not applicable.

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2.3 Other hazards		
Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	:	Not applicable.
Other hazards which do not result in classification	:	None known.
STOTION & C	• . •	

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
bis-[4-(2,3- epoxipropoxi)phenyl]pro pane	RRN : 01- 2119456619-26 EC : 216-823-5 CAS : 1675-54-3 Index : 603-073-00-2		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]
1,2,3-Propanetriol, polymer with 2- (chloromethyl)oxirane	CAS : 25038-04-4	>= 50 - <= 75	Acute Tox. 4, H302 Skin Irrit. 2, H315	ATE [Oral] = 500 mg/kg	[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 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

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> 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.

thoroughly with water before removing it, or wear gloves.

Wash out mouth with water. Remove dentures if any. If material has Ingestion : 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 necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Protection of first aid personnel No action shall be taken involving any personal risk or without : suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects		
Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	::	Causes serious eye irritation. No known significant effects or critical hazards. Causes skin irritation. May cause an allergic skin reaction. Harmful if swallowed.
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 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, CO2, 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

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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 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 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 cont	ainme	nt 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
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> 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. 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

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> 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				_	
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Short term Dermal	8,3 mg/kg bw/day	Workers	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Short term Inhalation	12,3 mg/m ³	Workers	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Long term Dermal	8,3 mg/kg bw/day	Workers	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Long term Inhalation	12,3 mg/m ³	Workers	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Short term Dermal	3,6 mg/kg bw/day	General population	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Short term Inhalation	0,75 mg/m ³	General population	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Short term Oral	0,75 mg/kg bw/day	General population	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Long term Dermal	3,6 mg/kg bw/day	General population	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Long term Inhalation	0,75 mg/m ³	General population	Systemic
bis-[4-(2,3- epoxipropoxi)phe nyl]propane	DNEL	Long term Oral	0,75 mg/kg bw/day	General population	Systemic
DNEL/DMEL Su	mmary	: Not ava	ilable		

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-	PNEC	Fresh water sediment	0,341 mg/kg dw	

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epoxipropoxi)phenyl]prop ane			
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

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	:	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		
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.
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

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		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).			
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.			
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.			
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.			
General protective measures	:	Chemical splash goggles or face shield. Chemical-resistant gloves. Suitable protective footwear. Light protective clothing. Eyewash bottle with clean water.			

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Liquid
Color	:	Yellowish.
Odor	:	slight, characteristic
Odor threshold	:	Not available (not measured)
pH	:	Not available (not measured)
Melting point/freezing point	:	Not available (not measured)
Initial boiling point and boiling	:	Not available (not measured)
range		· /
Flash point	:	Greater than 100 °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	:	Not available (not measured)
Density	:	Approx. 1,140 g/cm3
Solubility(ies)	:	Not available (not measured)

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Solubility in water	:	Insoluble
Partition coefficient: n	:	Not applicable.
Auto-ignition temperature	:	Not available (not measured)
Decomposition temperature	:	Not available (not measured)
Viscosity	:	Dynamic: Approx. 600 - 900 mPa s @ 25 °C (ISO 9371)
		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	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	No specific data.
10.5 Incompatible materials	:	No specific data.
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure				
bis-[4-(2,3-epoxipropoxi)phen	yl]propane							
	LD50 Oral	Rat	11.400 mg/kg	-				
Remarks - Oral:	Not acutely toxic body weight.	Not acutely toxic in multiple mouse and rat studies, LD50 > 2000 mg/kg of body weight.						
	LD50 Oral	Rat	11.400 mg/kg	-				
Remarks - Inhalation:	Due to the very low vapor pressure, saturated atmosphere = 0.008 ppb,							
	meaningful acute inhalation studies could not be conducted.							
Remarks - Dermal:	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 -							
	LD50 Dermal	Rat	2.000 mg/kg	-				

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Conclusion/Summary : Not available

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
EPIKOTE™ Resin MGS LR 285	1.000 mg/kg	N/A	N/A	N/A	N/A
bis-[4-(2,3- epoxipropoxi)phenyl]propan e	11.400 mg/kg	N/A	N/A	N/A	N/A
1,2,3-Propanetriol, polymer with 2- (chloromethyl)oxirane	500 mg/kg	N/A	N/A	N/A	N/A

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 - 1,5		-	
	Acute Dermal	1				
	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	-	
	irritant					
	eyes - Mild irritant	Rabbit	-		-	

Conclusion/Summary

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

Sensitization

Product/ingredient name	Route of exposure	Species	Result
bis-[4-(2,3- epoxipropoxi)phenyl]propan	Skin	See Remarks	Sensitizing
e			
Remarks:	concentration of 5.7% s this test system. In an induced positive derma concentration challengs sensitizer under the con	OECD No. 406 guinea p I reaction in 100% of the e dose. Therefore, BAD	is a moderate skin sensitizer in ig Maximization study BADGE e test animals at a 50% GE is an "Extreme" skin ADGE was also positive for skin
Conclusion/Summary			
Skin	: Not availab	le	
Respiratory	: Not availab	le	

Mutagenicity

Product/ingredient name	Test	Experiment	Result	
bis-[4-(2,3-	-	Subject: See Remarks	Positive	
epoxipropoxi)phenyl]propan				
e				
Remarks:		ation in Ames/Salmonella tes		
		Generally, mutagenic activit		
		n. Induced gene-mutation in		
		gene-mutation and chromoson		
	hamster V79 cells. Induced cell transformation in Syrian hamster BHK cells			
	based on clonal growth in soft agar.			
	-	Subject: Mammalian-	Negative	
		Animal		
Remarks:	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.			
Conclusion/Summary	: Not available			

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-	Negative -	See Remarks		
epoxipropoxi)phenyl]propan	Unreported -			
e	NOEL			
Remarks:	carcinogenicity up Guideline no. 453 female rats. No e	vidence of carcinog se of 100 mg/kg/day	evel of 100 mg/kg/ tudies were conduc genicity was observ	
Conclusion/Summary	: Not av	vailable		

Reproductive toxicity

Conclusion/Summary : Not available

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
bis-[4-(2,3-	Negative - Oral	Rabbit	-	-
epoxipropoxi)phenyl]propan	-			
e				
Remarks:	exposed by oral g Guideline no. 414 high dose level of decreased body w	avage or in rabbi GLP studies. T 180 mg/kg/day eight gain. The mg/kg/day that in	its treated by the der he oral gavage studi that produced mater rabbit dermal study	toxicity in rats and rabbits rmal route in OECD Test ies were conducted up to a mal toxicity base on was conduced up to a cicity based on reduced
Conclusion/Summary	: Not av	vailable		

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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

n reaction.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	Adverse symptoms may include the following: pain or irritation, watering, redness
Inhalation	:	No specific data.
Skin contact Ingestion	:	Adverse symptoms may include the following: irritation, redness No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>

Potential immediate effects	: Not available	
Potential delayed effects	: Not available	

Long term exposure

Potential immediate effects	:	Not available
Potential delayed effects	:	Not available

Potential chronic health effects

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

11.2. Information on other hazards

11.2.1 Endocrine disrupting properties	:
11.2.2 Other information	:

Not available Not available

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure

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bis-[4-(2,3-epoxipropo	xi)phenyl]propane		
	Acute LC50 1,3 mg/l - 203	Fish	96 h
	Fish, Acute Toxicity Test		
	Acute LC50 1,3 mg/l 203	Fish	96 h
	Fish, Acute Toxicity Test		
	Acute EC50 2,1 mg/l - 202	Water flea	48 h
	Daphnia sp. Acute		
	Immobilization Test and		
	Reproduction Test		
	Acute LC50 > 11 mg/l -	Algae	72 h
	Acute $LC50 > 11 \text{ mg/l}$	Algae	72 h
	Chronic No-observable-effect- concentration 0,3 mg/l semi- static test 211 Daphnia Magna Reproduction Test	Water flea	21 d

Conclusion/Summary : Not available

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
bis-[4-(2,3- epoxipropoxi)phenyl]propan e	OECD-Guideline 301 F (Manometric Respirometry Test)	6 - 12 % - No biodegradation - 28 d	-	Activated sludge
Remarks:				

Conclusion/Summary

Not available

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
bis-[4-(2,3-	2,64 - 3,78	3 - 31 31,00	low	9
epoxipropoxi)phenyl]propane				

12.4 Mobility in soil

Soil/water partition coefficient	:	Not available
(KOC)		
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

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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 ADR/ADN	14.1. UN number 3082	14.2. UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	14.3. Transport hazard class(es) 9	14.4. Packing group III
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. Environ	mental haza	rds		
Environmental	ly hazardous	and/or Marine Pollutant	: Yes.	

Yes.



14.6 Special precautions for user

: Transport within user's premises: always transport in closed

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> containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorization Annex XIV None required.

Substances of very high concern None required.

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

:

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.

<u>Seveso Directive</u> This product is controlled under the Seveso Directive.

Danger criteria

Category	-	
E2		

National regulations

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 Not determined. China inventory (IECSC) All components are listed or exempted. Korea inventory (KECI) All components are listed or exempted. New Zealand Inventory (NZIoC) Not determined. Philippines inventory (PICCS) Not determined.

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	
Acute Tox. 4, H302	Calculation method	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
Aquatic Chronic 2, H411	Calculation method	

Full text of abbreviated H statements

H302	Harmful if swallowed.
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]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Irrit. 2	SKIN CORROSION/IRRITATION
Skin Sens. 1	SKIN SENSITISATION
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM)
Skin Sens. 1	SKIN SENSITISATION - Category 1

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Notice to reader

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