

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 BPR 20

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

1.1 Product identifier

Product name SDS Number	:	EPIKOTE [™] Resin MGS BPR 20 16S-00181
Product type	:	Epoxy Resin
Other means of identification	:	UFI: 6YPP-PWV1-YW0V-3NXW

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 Telephone 1.4	:	epoxyservice@westlake.com General information +31 (0) 10 295 4000
Emergency telephone number Supplier Telephone number	:	CARECHEM24 +44 (0) 1235 239 670

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

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

Skin Corr./Irrit. 2 H315

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Eye Dam./Irrit. 2 H319 Skin Sens. 1 H317 Repr. 1B H360F 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	 Danger 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-epoxipropoxi)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	

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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

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:

:

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]
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		Skin Irrit. 2, H315 Skin Sens. 1, H317 Repr. 1B, H360F	-	[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 Inhalation Skin contact Ingestion Over-exposure signs/symptoms	:	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.
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 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	subs	tance 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 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 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

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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/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	DNEL	Long term Oral	0.75 mg/kg bw/day	General population	Systemic

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nyl]propane					
Bisphenol F diglycidyl ether, reaction mass of isomers	DNEL	Short term Dermal	8.3 μg/cm ²	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 ³	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 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	0.49 mg/m ³	Workers	Systemic
oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	DNEL	Long term Inhalation	0.087 mg/m ³	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-	DNEL	Long term Oral	0.05 mg/kg bw/day	General population	Systemic

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
bis-[4-(2,3-	PNEC	Fresh water	6 μg/l	
epoxipropoxi)phenyl]prop				
ane				
bis-[4-(2,3-	PNEC	Marine	1 μg/l	
epoxipropoxi)phenyl]prop				
ane				
bis-[4-(2,3-	PNEC	Sewage Treatment Plant	10 mg/l	
epoxipropoxi)phenyl]prop				
ane				

1: [4 (2 2	DNEC	Events and the set	0.241
bis-[4-(2,3-	PNEC	Fresh water sediment	0.341 mg/kg dw
epoxipropoxi)phenyl]prop			
ane	DNEC		
bis-[4-(2,3-	PNEC	Marine water sediment	0.034 mg/kg dw
epoxipropoxi)phenyl]prop			
ane	DUEG		
bis-[4-(2,3-	PNEC	Soil	0.065 mg/kg dw
epoxipropoxi)phenyl]prop			
ane			
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			
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			6 6 6 6
isomers			
Bisphenol F diglycidyl	PNEC	Intermittent Releases	0.0254 mg/l
ether, reaction mass of	11120		
isomers			
oxirane, mono[(C12-14-	PNEC	Fresh water	0.0072 mg/l
alkyloxy)methyl] derivs.	11120		0.0072 mg/1
oxirane, mono[(C12-14-	PNEC	Marine	0.72 µg/l
alkyloxy)methyl] derivs.	11LC		0.72 mB/1
oxirane, mono[(C12-14-	PNEC	Sewage Treatment Plant	10 mg/l
alkyloxy)methyl] derivs.	THE		10 116/1
oxirane, mono[(C12-14-	PNEC	Fresh water sediment	307.16 mg/kg dv
alkyloxy)methyl] derivs.	INLU	i resir water seufment	507.10 mg/Kg uv
oxirane, mono[(C12-14-	PNEC	Marine water sediment	30.716 mg/kg dv
	INEC	Marme water seument	50.710 mg/kg uv
alkyloxy)methyl] derivs.	PNEC	Soil	61.42 mg/kg duu
oxirane, mono[(C12-14-	FINEC	5011	61.42 mg/kg dw
alkyloxy)methyl] derivs.		Nat and lable	

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.
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. 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
Other skin protection	:	approved by a specialist before handling this product. 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	:	Paste.
Color	:	Yellow
Odor	:	Characteristic.
Odor threshold	:	Not available (not measured)
рН	:	Not available (not measured)
Melting point/freezing point	:	Not available (not measured)
Initial boiling point and boiling	:	Not available (not measured)
range		
Flash point	:	Not available (not measured)
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)
Solubility(ies)	:	Not available (not measured)
Solubility in water	:	Insoluble
Partition coefficient: n-	:	Not applicable.
octanol/water		
Auto-ignition temperature	:	Not available (not measured)
Decomposition temperature	:	Not available (not measured)
Viscosity	:	Dynamic: Not available (not measured)
		Kinematic: Not available (not measured)
Explosive properties	:	Not available (not measured)
Oxidizing properties	:	Not available (not measured)
Particle characteristics		
Median particle size	:	Not applicable.
F		11

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.

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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						
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:			turated atmosphere = uld not be conducted.	0.008 ppb,			
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 -						
Bisphenol F diglycidyl ether, r	eaction mass of isor	mers					
Remarks - Oral:		dian lethal dose (LD: r than 2000 mg/kg bo	50) in the Fischer 344 odyweight.	strain rat was			
	LD50 Oral	Rat	> 2,000 mg/kg	-			
Remarks - Inhalation:	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-alkylo	xy)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- epoxipropoxi)phenyl]propan e	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-	Skin -	Rabbit	1.5 - 2		-
epoxipropoxi)phenyl]propane	Erythema/Eschar				

	404 Acute Dermal				
	404 Acute Dermai Irritation/Corrosion				
	Skin - Edema 404	Rabbit	1.0 - 1.5		
		Kabbit	1.0 - 1.5		-
	Acute Dermal				
	Irritation/Corrosion	D 111	0		
	Eyes 405 Acute	Rabbit	0		-
	Eye				
	Irritation/Corrosion	D 111	0.7		
	Eyes - Redness of	Rabbit	0.7		-
	the conjunctivae	D 111		241	
	Skin - Moderate	Rabbit	-	24 hrs	-
	irritant	5.111			
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant	5.111			
	Eyes - Mild irritant	Rabbit	-		-
Bisphenol F diglycidyl ether,	Skin -	Rabbit	0.7	4 hrs	72 hrs
reaction mass of isomers	Erythema/Eschar				
	404 Acute Dermal				
	Irritation/Corrosion				
	Skin - Edema 404	Rabbit	0	4 hrs	4 - 504 hrs
	Acute Dermal				
	Irritation/Corrosion				
	Eyes - Cornea	Rabbit	0		1 - 168 hrs
	opacity 405 Acute				
	Eye				
	Irritation/Corrosion				
	Eyes - Iris lesion	Rabbit	0		1 - 168 hrs
	405 Acute Eye				
	Irritation/Corrosion				
	Eyes - Redness of	Rabbit	0		1 - 168 hrs
	the conjunctivae				
	405 Acute Eye				
	Irritation/Corrosion				
	Eyes - Edema of	Rabbit	0		1 - 168 hrs
	the conjunctivae				
	405 Acute Eye				
	Irritation/Corrosion				
	Skin - Mild irritant	Rabbit	-	24 hrs	-
oxirane, mono[(C12-14-	Skin - Primary	Rabbit	4.1	24 hrs	72 hrs
alkyloxy)methyl] derivs.	dermal irritation				
	index (PDII) OTS				
	798.4470 Acute				
	Dermal Irritation				
	Skin - Primary	Rabbit	5.75	24 hrs	72 hrs
	dermal irritation				
	index (PDII) 404				
	Acute Dermal				
	Irritation/Corrosion				
	Eyes - Cornea	Rabbit	2		1 - 24 hrs
	opacity 405 Acute				
	Eye				
	Irritation/Corrosion				
		Rabbit	-	24 hrs	-

агу Skin

Not available :

Not available :

Respiratory

Eyes

Not available

:

Sensitization

Product/ingredient name	Route of exposure	Species	Result		
bis-[4-(2,3-	Skin	See Remarks	Sensitizing		
epoxipropoxi)phenyl]propan					
e					
Remarks:		se LLNA study the estimate			
		gesting that BADGE is a m			
		CD No. 406 guinea pig Max			
		eaction in 100% of the test a			
		ose. Therefore, BADGE is			
		ions of this study. BADGE			
	sensitization in an OECD No. 406 guinea pig Buehler method study.				
Bisphenol F diglycidyl ether,	Skin	Guinea pig	Sensitizing		
reaction mass of isomers					
Remarks:		employed to evaluate the de			
		GE Epoxy Resin. Ten male			
	ml of test substance topically once a week for three weeks. A positive control of				
		esin was used on ten additio			
		o weeks later with an addition			
		E Epoxy Resin. The negative			
		DGE Epoxy Resin had 4 of			
		d 8 of ten positive reactions			
		l caused delayed hypersensi			
oxirane, mono[(C12-14-	Skin	Guinea pig	Sensitizing		
alkyloxy)methyl] derivs.	~				
Remarks:		A. OTS test guideline no. 87			
		ive dermal reactions in 20/2			
		.E.C.D. test guideline no. 40	J6 guinea pig		
	Maximization study.				
	Skin	Guinea pig	Sensitizing OECD Test		
Conclusion/Summary			Guideline 406		

Conclusion/Summary

Skin Respiratory Not available Not available

:

:

Mutagenicity

Product/ingredient name	Test	Experiment	Result		
bis-[4-(2,3-	-	Subject: See Remarks	Positive		
epoxipropoxi)phenyl]propan		-			
e					
Remarks:	BADGE induced gene-mut	tation in Ames/Salmonella tes	ster strains TA1535 and		
	TA100 in multiple studies.	Generally, mutagenic activity	ty was greater without		
	liver S9 metabolic activation	on. Induced gene-mutation ir	n 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-	Negative		
		Animal			
Remarks:	Did not induce evidence of	chromosome damage in a m	ouse dominant lethal		
	oral gavage study conducte	ed up to a high dose level of 1	0 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		
		vage up to a high dose of 330			
		strand breaks in rat liver cell			

	treatment with 500 mg/kg as measured by alkaline elution.						
Bisphenol F diglycidyl ether,	-	Subject: See Remarks	Positive				
reaction mass of isomers		Experiment: In vitro	i oblive				
Remarks:	Bisphenol F Diglycidylether induced gene-mutation in the Ames/Salmonella						
Kennar KS.	mutation test and chromosomal aberrations in human lymphocytes in multiple						
	independent testing guideline GLP studies. Furthermore, the structural analog,						
		er (BPADGE) induce a signif					
		SY mouse lymphoma cells in					
		3PFDGE is genotoxic in vitro					
	other midnigs. Therefore, I	Subject: Mammalian-	Negative				
	-	Animal					
Damaslan	When Dischargel E Dislars	Experiment: In vivo					
Remarks:		dylether was evaluated for ge					
		s including the mouse micro					
		tests no evidence of genotox					
		s for genotoxicity also suppor					
	•	refore, Bisphenol F Diglycid	ylether is not genotoxic				
	in vivo.						
oxirane, mono[(C12-14-	OECD-Guideline 471	Subject: Bacteria	Positive				
alkyloxy)methyl] derivs.	(Genetic Toxicology: Experiment: In vitro						
	Salmonella 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 guideline no. 476 Chinese hamster ovary cell						
	(CHO) HGPRT gene-mutation assay conducted up to cytotoxic does levels with						
		ctivation. Negative in a L51					
		y tested up to cytotoxic dose					
	474 Mammalian	Subject: Mammalian-	Negative				
	Erythrocyte	Animal					
	Micronucleus Test	Experiment: In vivo					
Remarks:		(chromosome damage) induc					
		udy conducted up to a high I.					
		t bone marrow chromosome					
		ilar to O.E.C.D. test guideline					
		of approximately 700 mg/kg.					
	476 In vitro Mammalian	Subject: Mammalian-	Negative				
	Cell Gene Mutation Test	Animal					
		Experiment: In vitro					
	479 Genetic Toxicology:	Subject: Mammalian-	Negative				
	In vitro Sister Chromatid	Animal					
	Exchange Assay in	Experiment: In vitro					
	Mammalian Cells						
	475 Mammalian Bone	Subject: Mammalian-	Negative				
	Marrow Chromosomal	Animal					
	Aberration Test	Experiment: In vitro					
	•	• •	•				

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:	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 ar	nd female rats expose	d up to a high dose	

	level of 1000 mg/kg/day.					
Bisphenol F diglycidyl ether,	Negative -	Mouse				
reaction mass of isomers	Dermal - NOEL					
Remarks:	Bisphenol F Diglycidylether (BPFDGE) 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 (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 be					
	approximately 800 mg/kg/day.					
Conclusion/Summary	: Not ava	ilable				

Not	avai	lable

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmen t 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	-

Conclusion/Summary

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure	
bis-[4-(2,3-	Negative - Oral	Rabbit	-	-	
epoxipropoxi)phenyl]propan					
e					
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 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 toxicity based on reduced body weight gain.				
Bisphenol F diglycidyl	Negative -	Rabbit	-	-	
ether, reaction mass of	Dermal				
isomers					
Remarks:			PA) was tested for its abbits. DGEBPA was		
	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				
			mg/kg/day exposure		
			abbits in the 30 mg/k		
			gnificant. No evidence		
			at any dose level resu		

	embryo/fe	etal no-oh	served_effect level (of 300 mg/kg body we	hight/day
oxirane, mono[(C12-14-	Negative		Rat		
alkyloxy)methyl] derivs.	Dermal (Rat		
antyloxy)methylj derivs.	Test Guid				
	414	lenne			
Remarks:			TS 708 4420 and O	ECD test guideline	no 414
Kelliarks:				.E.C.D. test guideline	
				d by the dermal route	
				omental adverse effect	s was greater than
	the high d		of 200 mg/kg/day.		
Conclusion/Summary	:	Not ava	ilable		
	(.				
Specific target organ toxicity	(single ex	posure)			
Not available					
Specific target organ toxicity Not available	(repeated	exposure	<u>))</u>		
Aspiration hazard					
Not available					
Information on likely routes	of :	Not ava	ilable		
exposure					
Potential acute health effects					
Eye contact	:	Causes	serious eye irritatio	n.	
Inhalation				ts or critical hazards.	
Skin contact					reaction
Ingestion	 Causes skin irritation. May cause an allergic skin reaction. No known significant effects or critical hazards. 				
ingestion	•		wii significant circe	to of efficient nazardo.	
Symptoms related to the physi	cal, chemi	cal and to	oxicological charac	<u>eteristics</u>	
Eye contact	:			clude the following: p	ain or irritation,
			g, redness		
Inhalation	:			clude the following: re	educed fetal weight
			,	eletal malformations	
Skin contact	:			clude the following: in	
				ase in fetal deaths, ske	
Ingestion	:			clude the following: re	educed fetal weight
		increase	e in fetal deaths, ske	eletal malformations	
Delayed and immediate effects	as well as	chronic e	ffects from short a	nd long-term exposu	ire
				<u></u>	
Short term exposure					
		N-4 -	labla		
Potential immediate effects	:	Not ava			
Potential delayed effects	:	Not ava	llable		
. .					
Long term exposure					
Potential immediate effects	:	Not ava			
Potential delayed effects	:	Not ava	ilable		
Potential chronic health effect	<u>s</u>				
			Smaataa	Dara	F
Product/ingredient name	Result	D. 1	Species	Dose	Exposure
oxirane, mono[(C12-14-	NOAEL	Dermal	Rat	1 mg/kg/d	90 days Repeated
alkyloxy)methyl] derivs.				Repeated dose	dose; 5 days per
1	1		1	411 Subchronic	week Repeated

411 Subchronic Dermal Toxicity: week Repeated

dose

		90-day Study
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	:	May damage fertility.

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-epoxipropoxi)pher	nyl]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 $LC50 > 11 \text{ mg/l}$ -	Algae	72 h
	Acute $LC50 > 11 \text{ mg/l}$	Algae	72 h
	Chronic NOEC 0.3 mg/l semi-	Water flea	21 d
	static test 211 Daphnia Magna		
	Reproduction Test		
Bisphenol F diglycidyl ether,	reaction mass of isomers		
	Acute LC50 2.54 mg/l	Fish	96 h
	Acute EC50 2.55 mg/l - 202	Water flea	48 h
	Daphnia sp. Acute		
	Immobilization Test and		
	Reproduction Test		
	Acute EC50 > 1,000 mg/l 201	Algae	72 h
	Alga, Growth Inhibition Test		
oxirane, mono[(C12-14-alkyle			
	Acute LC50 > 1.8 g/l - 203	Rainbow trout, donaldson	96 h
	Fish, Acute Toxicity Test	trout	
	Acute LC50 > 5.0 g/l - 203	Bluegill	96 h
	Fish, Acute Toxicity Test	-	
	Acute LC50 > 100.0 mg/l - 203	Rainbow trout, donaldson	96 h
	Fish, Acute Toxicity Test	trout	
	Acute EC50 7.2 mg/l - 202	Water flea	48 h
	Daphnia sp. Acute		
	Immobilization Test and		
	Reproduction Test		
	Acute EC50 844 mg/l - 201	Algae	72 h
	Alga, Growth Inhibition Test	-	
	Acute EC50 844 mg/l 201	Algae	72 h
	Alga, Growth Inhibition Test	-	
	Acute EC50 > 100 mg/l Fresh	activated sludge, domestic	3 h
	water OECD-Guideline No.	(adaptation not specified)	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKOTE[™] Resin MGS BPR 20 Page: 19/23

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Conclusion/Summary

Not available

:

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
bis-[4-(2,3-	OECD-Guideline	6 - 12 % - No	-	Activated sludge
epoxipropoxi)phenyl]propan	301 F	biodegradation -		C
e	(Manometric	28 d		
	Respirometry			
	Test)			
Remarks:	The level of biodeg	radation in an "enha	nced" OECD 301F st	udy was 5% within
			ion reached 6 - 12 %	
			01B study. Therefore	e, BADGE is not
	readily biodegradat	ole under the condition	ons of the studies.	
Bisphenol F diglycidyl ether,	OECD-Guideline	16 % - No	10 mg/l	Activated sludge
reaction mass of isomers	301 B (CO2	biodegradation -		
	Evolution Test)	28 d		
Remarks:	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-	OECD-Guideline	87 % - Readily	-	Activated sludge
alkyloxy)methyl] derivs.	301 F	biodegradable -		
	(Manometric	28 d		
	Respirometry			
	Test)			
Conclusion/Summarv	: Not ava	ailable		

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
epoxipropoxi)phenyl]propane			
Bisphenol F diglycidyl ether,	3.3	150	low
reaction mass of isomers			
oxirane, mono[(C12-14-	3.77	160 - 263 160.00	low
alkyloxy)methyl] derivs.			

Not available

12.4 Mobility in soil

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

12.5 Results of PBT and vPvB assessment

12.6 Endocrine disrupting properties

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

12.7 Other adverse effects	:	No known significant effects or critical hazards.
		No known significant effects or critical hazards.

:

SECTION 13: Disposal considerations

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKOTE[™] Resin MGS BPR 20 Page:20/23

13.1 Waste treatment methods

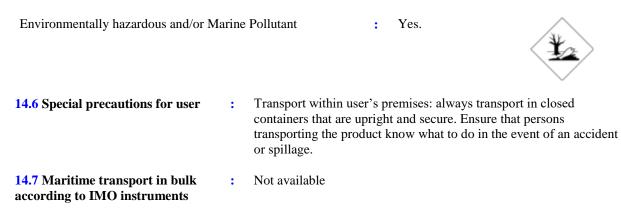
<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority 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.
<u>Packaging</u>	
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	III
RID	3082	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATIVES)	9	III
ІСАО/ІАТА	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. Environmental hazards

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKOTE[™] Resin MGS BPR 20 Page:21/23



SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 Annex XIV - List of substances sul Annex XIV None required.			
<u>Substances of very high concern</u> 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 exempted from registration, according to Regulation 1907/2006 (REACH).	
Seveso Directive This product is controlled under the s Danger criteria	Seve	eso Directive.	
Category E2			
National regulations Storage class (TRGS 510) Hazardous incident ordinance This product is controlled under the Danger criteria		6.1D many Hazardous Incident Ordinance.	
Category			Reference number
Version: 9.0 Date of issue/	Date	of revision: 03.07.2024 Date of previous is	sue: 23.01.2024

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKOTE[™] Resin MGS BPR 20 Page:22/23

E2	1.3.2
Hazard class for water Technical instruction on air quality control AOX <u>International regulations</u>	 WGK 2 TA-Luft Number 5.2.5: 62.5 % TA-Luft Number 5.2.5: Class I - 17.5 % The product contains organically bound halogens and can contribute to the AOX value in waste water.
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) 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 Assess	nent : 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
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Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 1B, H360F	Calculation method
Aquatic Chronic 2, H411	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.

	Toxic to aduatic 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

:	20.01.2025
:	03.07.2024
:	23.01.2024
:	9.0
	:

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.