

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

SAFETY DATA SHEET

FOR PROFESSIONAL and/or INDUSTRIAL USE ONLY

EPIKURE[™] Curing Agent MGSBPH1355G-NEO

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

1.1 Product identifier

Product name SDS Number	:	EPIKURE [™] Curing Agent MGSBPH1355G-NEO 300000030065
Product type	:	Curing Agent
Other means of identification	:	UFI: AQXF-E0CK-VNAW-MHKP

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

Product use

Wind Energy

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 4011
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. 1B H314 Eye Dam./Irrit. 1 H318 Skin Sens. 1 H317

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

2.2 Label elements

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Hazard pictograms	
Signal word Hazard statements	 Danger Causes severe skin burns and eye damage. May cause an allergic skin reaction.
Precautionary statements	
Prevention	: Wear protective gloves, protective clothing and eye or face protection. Avoid breathing dust.
Response	 IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	: Triethylenetetramine Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia
Supplemental label elements	: Not applicable.
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	: None known.

result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Mixture

:

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M- factors and ATEs	Туре
Fatty Acids, C18- Unsatd., Dimers, Polymers with Tall-Oil Fatty Acids and Triethylenetetramine	RRN : Polymer CAS : 68082-29-1	>= 50 - <= 75	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	
glass, oxide, chemicals This category encompasses the various chemical substances manufactured in the production of inorganic glasses. For purposes of this category, 'glass' is defined as an amorfous, inorganic, transparent, translucent or opaque material traditionally formed by fusion of sources of silica with a flux, such as an alkali- metal carbonate, boron oxide, etc. and a stabilizer, into a mass which is cooled to a rigid condition without crystallization in the case of transparent or liquid- phase separated glass or with controlled crystallization in the case of glass-ceramics. The category consists of the various chemical substances, other than by-products or impurities, which are formed during the production of various glasses and concurrently incorporated into a glass mixture. All glasses contain one or more of these substances, but few, if any, contain all of them. The elements listed below are principally present as components of oxide systems but some may also be present as halides or chalcogenides, in multiple oxidation states, or in more complex compounds. Trace amounts of other oxides		>= 10 - <= 25	Not classified.		

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or chemical compounds may be present. Oxides of the first seven elements listed* Image: Comprise more than 95 percent, by weight, of the glass produced. @Aluminium*@Lead@ Boron*@Lithum@Calci um@Ptassum*@Nolyblenum @Ptassum*@Nolyblenum @Ptassum*@Nolyblenum @Ptassum*@Nolyblenum @Ptassum*@Nolyblenum @Ptassedymium@Bai smuth@Rubidtum@Cad mium@Stereodymium@Bis smuth@Rubidtum@Cad mium@Ccbalt@Tin@Cop per@Titaium@Creman ium@Chemium@Carb one@Silver@Creium@St routum@Ccbalt@Tin@Cop per@Titaium@German ium@Tangsten@Gold@ Uranium@Holmium@V anadium@Iron@Zirconium >= 5 - <= 10 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eyc Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412 ATE [Oral] = 1,716.2 mg/kg ATE [Dermal] = 1,720 mg/kg Skin Sens. 1, H314 Eyc Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412
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RRN : 01- Acute Tox. 4, H312 ATE [Dermal] = 1,465 mg/kg
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CAS : 90640-67-8 Skin Sens. 1, H317
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Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
Aquatic Chronic 3, H412
Reaction products of di-, $> 0 - <= 5$ Skin Corr. 1C, H314 -
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propoxylated propane- 2119557899-12 Aquatic Chronic 3, H412
1,2-diol with ammonia EC : 618-561-0
1,2-diol with ammonia EC : 618-561-0 CAS : 9046-10-0

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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

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	:	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	:	Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	:	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Protection of first aid personnel	:	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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Eye contact Inhalation Skin contact Ingestion <u>Over-exposure signs/symptoms</u>	:	Causes serious eye damage. No known significant effects or critical hazards. Causes severe burns. May cause an allergic skin reaction. No known significant effects or critical hazards.
Eye contact	:	Adverse symptoms may include the following: pain watering redness
Inhalation	:	No specific data.
Skin contact	:	Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	:	Adverse symptoms may include the following: stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	:	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from the	: : subs	Use dry chemical, CO2, alcohol-resistant foam or water spray (fog). Do not use water jet. tance or mixture
Hazards from the substance or mixture Hazardous thermal decomposition products	:	No specific fire or explosion hazard. Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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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. 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).
6.3 Methods and material for contai	nme	nt and cleaning up
Small spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
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. 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	:	Not available
solutions		

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
glass, oxide, chemicals This	EH40/2005 WELs (1997-01-01)
category encompasses the various	TWA - TLV and PEL 5 mg/m3
chemical substances manufactured	
in the production of inorganic glasse	
Silica, Amorphous, Fumed, Cryst	EH40/2005 WELs (1997-01-01)
Free	TWA - TLV and PEL 6 mg/m3 Form: inhalable dust
	TWA - TLV and PEL 2.4 mg/m3 Form: respirable dust

Recommended monitoring If this product contains ingredients with exposure limits, personal, : procedures 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 nt name	Туре	Exposure	Value	Population	Effects
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia		Long term Inhalation	1.36 mg/m ³	Workers	Systemic
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia		Long term Dermal	2.5 mg/kg bw/day	Workers	Systemic

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DNEL/DMEL Summary : N

Not available

PNECs

Product/ingredient name	Туре	Compartment Detail	Value	Method Detail
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Fresh water	0.015 mg/l	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Marine	0.0142 mg/l	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Sewage Treatment Plant	7.5 mg/l	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Fresh water sediment	0.132 mg/kg dw	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Marine water sediment	0.125 mg/kg dw	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	PNEC	Soil	0.0176 mg/kg dv	
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia PNEC Summary	PNEC	Secondary Poisoning	6.93 mg/kg wwt	

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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:10/18

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 and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Skin protection		
Hand protection	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Odor threshold:Not available (not measured)pH:Not available (not measured)	Physical state Color	:	Paste Blue.
Flash point:Greater than 200 °C	Odor threshold pH Melting point/freezing point Initial boiling point and boiling range	:::::::::::::::::::::::::::::::::::::::	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:11/18

Evaporation rate	:	Not available (not measured)
Flammability (solid, gas)	:	Not available (not measured)
Burning time	:	Not available (not measured)
Burning rate	:	Not available (not measured)
Upper/lower flammability or	:	Lower: Not applicable.
explosive limits		Upper: Not applicable.
Vapor pressure	:	Not available (not measured)
Vapor density	:	Not applicable.
Relative density	:	Not available (not measured)
Solubility(ies)	:	Not available (not measured)
Solubility in water	:	Not available (not measured)
Partition coefficient: n-	:	Not applicable.
octanol/water		
Auto-ignition temperature	:	
		Not applicable.
Decomposition temperature	:	Not available (not measured)
Viscosity		Dynamic: Not available (not measured)
V ISCOSILY	•	Kinematic: Not available (not measured)
Explosive properties	:	Not available (not measured)
Oxidizing properties	:	Not available (not measured)
Particle characteristics		
Median particle size	:	Not available
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	:	Avoid contact with moist air. Keep away from heat and direct sunlight. 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

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:12/18

Product/ingredient name	Result	Species	Dose	Exposure				
Fatty Acids, C18-Unsatd., Dimers, Polymers with Tall-Oil Fatty Acids and Triethylenetetramine								
Triethylenetetramine								
	LD50 Oral	Rat	1,716.2 mg/kg	-				
	LD50 Oral	Rat	1,716.2 mg/kg	-				
	LD50 Dermal	Rat - Male	1,720 mg/kg	-				
	LD50 Dermal	Rat - Male	1,720 mg/kg	-				
Triethylenetetramine								
	LD50 Oral	Rat	1,716 mg/kg	-				
	LD50 Oral	Rat	1,716 mg/kg	-				
	LD50 Dermal	Rat	1,465 mg/kg	-				
	LD50 Dermal	Rat	1,465 mg/kg	-				
Silica, Amorphous, Fumed, C	Silica, Amorphous, Fumed, CrystFree							
	LD50 Oral	Rat	3,160 mg/kg	-				
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia								
-	LD50 Oral	Rat	2,885 mg/kg	-				
	LD50 Dermal	Rabbit	2,980 mg/kg	-				

Conclusion/Summary

Not available

:

Acute toxicity estimates

Product/ingredient name	Oral	Dermal	Inhalation (gases)	Inhalation (vapors)	Inhalation (dusts and mists)
EPIKURE [™] Curing Agent MGSBPH1355G-NEO	12,011.3 mg/kg	10,254.4 mg/kg	N/A	N/A	N/A
Triethylenetetramine	1,716 mg/kg	1,465 mg/kg	N/A	N/A	N/A
Reaction products of di-, tri- and tetra-propoxylated propane-1,2-diol with ammonia	2,885 mg/kg	2,980 mg/kg	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fatty Acids, C18-Unsatd.,			-		-
Dimers, Polymers with Tall-					
Oil Fatty Acids and					
Triethylenetetramine					
Remarks:	Causes skin irr	itation. Causes	severe eye irrit	ation.	
Triethylenetetramine	eyes -	Rabbit	-	24 hrs	-
	Moderate				
	irritant				
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant				
	eyes - Severe	Rabbit	-		-
	irritant				
Reaction products of di-, tri-	eyes - Severe	Rabbit	-		-
and tetra-propoxylated	irritant				
propane-1,2-diol with					
ammonia					
Conclusion/Summary					

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

Sensitization

Conclusion/Summary Skin Respiratory	:	Not available Not available		
<u>Mutagenicity</u>				
Conclusion/Summary	:	Not available		
Carcinogenicity				
Conclusion/Summary	:	Not available		
<u>Reproductive toxicity</u>				
Conclusion/Summary	:	Not available		
Teratogenicity				
Conclusion/Summary	:	Not available		
Specific target organ toxicity (sing Not available	le exp	posure)		
Specific target organ toxicity (rependent) Not available	eated	<u>exposure)</u>		
Aspiration hazard Not available				
Information on likely routes of exposure	:	Not available		
Potential acute health effects				
Eye contact Inhalation Skin contact	::	Causes serious eye damage. No known significant effects or critical hazards. Causes severe burns. May cause an allergic skin reaction.		
Ingestion	:	No known significant effects or critical hazards.		
Symptoms related to the physical, c	<u>hemi</u>	cal and toxicological characteristics		
Eye contact	:	Adverse symptoms may include the following: pain, watering, redness		
Inhalation	:	No specific data.		
Skin contact	:	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur		
Ingestion	:	Adverse symptoms may include the following: stomach pains		
Delayed and immediate effects as well as chronic effects from short and long-term exposure				
Short term exposure				
Potential immediate effects Potential delayed effects	:	Not available Not available		
I and farme armagenes				

Long term exposure

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:14/18

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

Potential chronic health effects

Fatty Acids, C18-Unsatd.,				-
Dimers, Polymers with Tall-				
Oil Fatty Acids and				
Triethylenetetramine				
Conclusion/Summary	:	Not available	•	
General	:	subsequently	ed, a severe allergic rea exposed to very low le	vels.
Carcinogenicity	:	No known sig	gnificant effects or critic	cal hazards.
Mutagenicity	:	No known sig	gnificant effects or criti	cal hazards.
Reproductive toxicity	:	No known sig	gnificant effects or criti	cal hazards.
- v		·		

11.2. Information on other hazards

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

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Fatty Acids, C18-Unsatd., Dim	ners, Polymers with Tall-Oil Fatty	Acids and Triethylenetetramine	
Remarks - Acute - Aquatic	not available		
invertebrates.:			
Remarks - Acute - Aquatic	not available		
plants:			
Remarks - Acute - Micro-	not available		
organism:			
Remarks - Chronic - Fish:	not available		
Remarks - Chronic -	not available		
Aquatic invertebrates.:			
	Acute LC50 33,900 µg/l Fresh	Water flea	48 h
	water		
	Acute EC50 3,700 µg/l Fresh	Green algae	96 h
	water		

Conclusion/Summary

Not available

:

12.2 Persistence and degradability

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

Conclusion/Summary

Not available

12.3 Bioaccumulative potential

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:15/18

Product/ingredient name	LogPow	BCF	Potential
Triethylenetetramine	-2.65	•	low
	-1.661.4	-	low
Reaction products of di-, tri- and	1.34	-	low
tetra-propoxylated propane-1,2-diol			
with ammonia			

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.

SECTION 13: Disposal considerations

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
Hazardous waste	requirements of all authorities with jurisdiction.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	14.1. UN	14.2. UN proper shipping name	14.3. Transport	14.4. Packing
information	number		hazard class(es)	group

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:16/18

ADR/ADN	3259	CORROSIV (Triethylene	,	8	Π	
ICAO/IATA	3259	CORROSIV (Triethylene		8	Π	
IMO/IMDG	3259	CORROSIV (Triethylene Poly(oxypro		8	Π	
14.5. Environmental hazards						
Environmentally hazardous and/or Marine Pollutant : No.						
containers that a				user's premises: always transport in closed re upright and secure. Ensure that persons product know what to do in the event of an accident		
14.7 Maritime	transport in	bulk :	Not available			

SECTION 15: Regulatory information

according to IMO instruments

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. Annex XVII - Restrictions on Not applicable. : 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 not controlled under the Seveso Directive.

National regulations

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) All components are listed or exempte				
	Philippines inventory (PICCS) All components are listed or exempted.				
	United States inventory (TSCA 8b) All components are active or exempted.				
	Taiwan inventory (TCSI) All components are listed or exempted.				
	Thailand inventory Not determined.				
	Vietnam inventory Not determined.				

15.2 Chemical Safety Assessment	:	This product contains substances for which Chemical Safety
		Assessments are still required.

SECTION 16: Other information

:	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
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - oral
Acute Tox. 4	ACUTE TOXICITY - dermal
Skin Corr. 1B	SKIN CORROSION/IRRITATION
Skin Corr. 1C	SKIN CORROSION/IRRITATION
Skin Irrit. 2	SKIN CORROSION/IRRITATION
Skin Sens. 1	SKIN SENSITISATION
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 EPIKURE[™] Curing Agent MGSBPH1355G-NEO Page:18/18

Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM)	
Acute Tox. 4	ACUTE TOXICITY - oral	
Acute Tox. 4	ACUTE TOXICITY - dermal	
Skin Corr. 1B	SKIN CORROSION/IRRITATION	
Skin Corr. 1C	SKIN CORROSION/IRRITATION	
Skin Irrit. 2	SKIN CORROSION/IRRITATION	
Skin Sens. 1	SKIN SENSITISATION	
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION	
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM)	

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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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