

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

EPIKURETM Curing Agent MGS BPH 137 GF

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

1.1 Product identifier

Product name : EPIKURE™ Curing Agent MGS BPH 137 GF

SDS Number : BAK0000308

Product type : Curing Agent

Other means of identification : UFI: EWDF-4S5V-EFCJ-NSXS

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

Product use Epoxy Resin Systems

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier/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 4011

1.4

Emergency telephone number

Supplier : CARECHEM24 **Telephone number** : +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]

Acute Tox. 4 H302 Skin Corr./Irrit. 1B H314 Eye Dam./Irrit. 1 H318 Skin Sens. 1 H317 Repr. 2 H361f

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

2.2 Label elements

Hazard pictograms

Signal word : Dange

Hazard statements : Harmful if swallowed.

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of damaging fertility.

Precautionary statements

Prevention : Obtain special instructions before use.

Wear protective gloves, protective clothing, eye protection, face

protection, or hearing protection.

Avoid breathing dust.

Do not eat, drink or smoke when using this product.

Wash thoroughly after handling.

Response : IF exposed or concerned:

Get medical advice or attention.

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 : 3-aminomethyl-3,5,5-trimethylcyclohexylamine

Poly(oxypropylene) diamine

reaction mass of 1-[2-(2-aminobutoxy)ethoxy]but-2-ylamine and 1-({[2-(2-aminobutoxy)ethoxy]methyl}propoxy)but-2-ylamine

Triethylenetetramine

Supplemental label elements : Not applicable.

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.

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	>= 25 - <= 50	Skin Irrit. 2, H315 Eye Irrit. 2, H319	-	[1]
3-aminomethyl-3,5,5- trimethylcyclohexylamin e	RRN: 01- 2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	>= 10 - <= 25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 1,030 mg/kg	[1] [2]
reaction mass of 1-[2-(2- aminobutoxy)ethoxy]but -2-ylamine and 1-({[2- (2- aminobutoxy)ethoxy]met hyl}propoxy)but-2- ylamine	0000018916-59 CAS: 897393-42-9	>= 10 - <= 25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361f EUH071	ATE [Oral] = 500 mg/kg	[1]
Poly(oxypropylene) diamine	EC : Polymer CAS : 9046-10-0	>= 10 - <= 20	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 1,100 mg/kg ATE [Dermal] = 1,550 mg/kg	[1]
Triethylenetetramine	RRN: 01- 2119487919-13 EC: 292-588-2 CAS: 90640-67-8 Index: 612-059-00-5	> 0 - <= 4.2	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1,716 mg/kg ATE [Dermal] = 1,465 mg/kg	[1] [2]

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
- [2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

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

Eye contact

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

Edet 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

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact: Causes severe burns. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Over-exposure signs/symptoms

Eye contact : Adverse symptoms may include the following:

pain 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:

pain or irritation

redness

blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations

Ingestion: Adverse symptoms may include the following:

stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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 : 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

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 selfcontained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to

European standard EN 469 will provide a basic level of protection for chemical incidents.

Additional information : Not available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without

suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal

protective equipment.

For emergency responders: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials.

See also the information in "For non-emergency personnel".

6.2 Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental

pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment 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

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. 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. 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.

Advice on general occupational hygiene

Do not reuse container.

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
3-aminomethyl-3,5,5- trimethylcyclohexylamine	DFG MAK-Werte Liste (2014-06-23)
	Notes: Skin sensitizer
Triethylenetetramine	DFG MAK-Werte Liste (2014-06-23)
	Notes: Skin sensitizer

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.

DNEL/DMEL Summary : Not available

PNEC Summary : Not available

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 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.

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. Where air-filtering respirators are suitable, select an appropriate

combination of mask and filter, ABEK (EN14387) Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

General protective measures

Chemical splash goggles or face shield. Chemical-resistant gloves. Suitable protective footwear. Light protective clothing. Eyewash bottle with clean water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state: PasteColor: Blue.

Odor : amine.

Odor threshold : Not available (not measured)
pH : Not available (not measured)

Melting point/freezing point : Not determined

Initial boiling point and boiling

range

Flash point : Greater than 100 °C

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 explosive limits : Lower: Not applicable.
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 : Insoluble

Partition coefficient: n-

octanol/water

: Not applicable.

Auto-ignition temperature :

Not applicable.

Decomposition temperature : Not available (not measured)

Viscosity : Dynamic: Not available (not measured)

Kinematic: Not applicable.

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 Under normal conditions of storage and use, hazardous reactions will not occur. reactions

10.4 Conditions to avoid No specific data.

10.5 Incompatible materials Reactive or incompatible with the following materials:

acidsNo 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			
Fatty Acids, C18-Unsatd., Din	Fatty Acids, C18-Unsatd., Dimers, Polymers with Tall-Oil Fatty Acids and Triethylenetetramine						
3-aminomethyl-3,5,5-trimethy	lcyclohexylamine						
	LD50 Oral	Rat	1,030 mg/kg	-			
	LD50 Oral	Rat	1,030 mg/kg	-			
Poly(oxypropylene) diamine							
	LD50 Oral	Rat	1,100 mg/kg	-			
	LD50 Oral	Rat	1,100 mg/kg	-			
	LD50 Dermal	Rabbit	1,550 mg/kg	-			
	LD50 Dermal	Rabbit	1,550 mg/kg	-			
reaction mass of 1-[2-(2-amino	obutoxy)ethoxy]but	-2-ylamine and 1-({[[2-(2-				
aminobutoxy)ethoxy]methyl}p	propoxy)but-2-ylam	ine					
	LD50 Dermal	Rabbit	> 2,000 mg/kg	-			
	LD50 Dermal	Rabbit	> 2,000 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	-			

Conclusion/Summary Not available

Acute toxicity estimates

Product/ingredient name Oral	Dermal	Inhalation	Inhalation	Inhalation	
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			(gases)	(vapors)	(dusts and mists)
EPIKURE™ Curing Agent MGS BPH 137 GF	1,839.2 mg/kg	8,212.5 mg/kg	N/A	N/A	N/A
3-aminomethyl-3,5,5- trimethylcyclohexylamine	1,030 mg/kg	N/A	N/A	N/A	N/A
Poly(oxypropylene) diamine	1,100 mg/kg	1,550 mg/kg	N/A	N/A	N/A
reaction mass of 1-[2-(2- aminobutoxy)ethoxy]but-2- ylamine and 1-({[2-(2- aminobutoxy)ethoxy]methyl }propoxy)but-2-ylamine	500 mg/kg	N/A	N/A	N/A	N/A
Triethylenetetramine	1,716 mg/kg	1,465 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 se	evere eye irritatio	on.	
Poly(oxypropylene) diamine	eyes - Severe	Rabbit	-		-
	irritant				
Triethylenetetramine	eyes -	Rabbit	-	24 hrs	=
	Moderate				
	irritant				
	Skin - Severe	Rabbit	-	24 hrs	-
	irritant				
	eyes - Severe	Rabbit	-		-
	irritant				

Conclusion/Summary

Skin:Not availableeyes:Not availableRespiratory:Not available

Sensitization

Conclusion/Summary

Skin: Not availableRespiratory: Not available

Mutagenicity

Conclusion/Summary : Not available

Carcinogenicity

Conclusion/Summary : Not available

Reproductive toxicity

Conclusion/Summary : Not available

Teratogenicity

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Conclusion/Summary : Not available

Specific target organ toxicity (single exposure)

Not available

Specific target organ toxicity (repeated exposure)

Not available

Aspiration hazard

Not available

Information on likely routes of

exposure

Not available

Potential acute health effects

Eye contact : Causes serious eye damage.

Inhalation : No known significant effects or critical hazards.

Skin contact : Causes severe burns. May cause an allergic skin reaction.

Ingestion : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following: pain, 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: pain or irritation,

redness, blistering may occur, reduced fetal weight, increase in fetal

deaths, skeletal malformations

Ingestion : Adverse symptoms may include the following: stomach pains,

reduced fetal weight, increase in fetal deaths, skeletal malformations

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

Short term exposure

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

Long term exposure

Potential immediate effects: Not availablePotential 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 : Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels.

CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.

Reproductive toxicity : Suspected of damaging fertility.

11.2. Information on other hazards

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

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure		
Fatty Acids, C18-Unsatd., Din	Fatty Acids, C18-Unsatd., Dimers, 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.:					
3-aminomethyl-3,5,5-trimethyl	lcyclohexylamine				
	Acute EC50 17.4 mg/l Fresh	Daphnia - Daphnia magna	48 h		
	water				
	Acute EC50 17.4 mg/l Fresh	Daphnia - Daphnia magna	48 h		
	water				
	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

Conclusion/Summary : Not available

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
3-aminomethyl-3,5,5-	0.99	-	low
trimethylcyclohexylamine			
Poly(oxypropylene) diamine	1.34	-	low
Triethylenetetramine	-1.661.4	-	low

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

Product

Methods of disposal

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

Regulatory information	14.1. UN number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
ADR/ADN	3259	POLYAMINES, SOLID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	П
ICAO/IATA	3259	POLYAMINES, SOLID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II
IMO/IMDG	3259	POLYAMINES, SOLID, CORROSIVE, N.O.S. (ALKYLETHERAMINE)	8	II

14.5. Environmental hazards

Environmentally hazardous and/or Marine Pollutant

No.

14.6 Special precautions for user

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

14.7 Maritime transport in bulk according to IMO instruments

Not available

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Annex XIV

None required.

Substances of very high concern

None required.

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

Other EU regulations

REACH Status: The substance(s) in this product has (have) been Registered, or are

exempted from registration, according to Regulation (EC) No.

1907/2006 (REACH).

Prior Informed Consent (PIC) (649/2012/EU)

None required.

Seveso Directive

This product is not controlled under the Seveso Directive.

National regulations

Storage class (TRGS 510) : 8B

Hazardous incident ordinance

This product is not controlled under the Germany Hazardous Incident Ordinance.

Hazard class for water : WGK 2

Technical instruction on air : TA-Luft Number 5.2.5: 66.1 %

quality control TA-Luft Number 5.2.1: 22.2 %

AOX : Not available

International regulations

International lists : Australia inventory (AICS) Not determined.

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) At least one component is not listed.

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 Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Repr. 2, H361f	Calculation method

Full text of abbreviated H statements

H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H361f	Suspected of damaging fertility.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
EUH071	EUH071
Acute Tox. 4	ACUTE TOXICITY - oral
Acute Tox. 4	ACUTE TOXICITY - dermal

Skin Corr. 1B	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
Repr. 2	REPRODUCTIVE TOXICITY
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM)

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