Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by UK REACH Regulation SI 2019/758

atco[®] SAFETY DATA SHEET

Epoxy Damp Proof Membrane - Curing Agent

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

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- : Epoxy Damp Proof Membrane Curing Agent
- **Product name Product description** Product type UFI
- : Not available.
 - : Liquid.
 - : QQ40-Q0MJ-V00E-SD93

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

lden	tified uses
Industrial use Professional use	
Uses advised against	Reason
Consumer use	Product is not intended for consumer use.

1.3 Details of the supplier of the safety data sheet

Watco UK Limited Eastgate Court 195-205 High Street Guildford Surrey GU1 3EH Telephone no.: +44 (0) 1483 425000 (08:00 - 18:00) Fax no.: +44 (0) 1483 428888

e-mail address of person : rpmeurohas@rustoleum.eu responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Centre

Supplier

: +44 870 8200418 / +44 2038073798 Telephone number United Kingdom: Great Britain

Hours of operation

: 24/7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture **Product definition** : Mixture Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS] Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended. See Section 16 for the full text of the H statements declared above.

SECTION 2: Hazards identification

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard	p	icto	grams
			g

Hazard pictograms		
Signal word	Danger	
Hazard statements	-1317 - May	ses severe skin burns and eye damage. cause an allergic skin reaction. toxic to aquatic life with long lasting effects.
Precautionary statements	-	
General	Not applicat	ble.
Prevention		r protective gloves, protective clothing and eye or face protection. d release to the environment.
Response	2301 + P31 2303 + P36 contaminate or doctor. 2305 + P35 ninutes. Re	ect spillage. 0 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. 1 + P353, P310 - IF ON SKIN (or hair): Take off immediately all ed clothing. Rinse skin with water. Immediately call a POISON CENTER 1 + P338, P310 - IF IN EYES: Rinse cautiously with water for several move contact lenses, if present and easy to do. Continue rinsing. r call a POISON CENTER or doctor.
Storage	-	e locked up.
Disposal	9501 - Disp	ose of contents and container in accordance with all local, regional, I international regulations.
Hazardous ingredients	Fatty acids, ether and tri n-fenilenbis Phenol, styr	tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ethylenetetramine (methylamine)
Supplemental label elements	Not applicat	ole.
Supplemental label elements : Detergents - Regulation (EC) No 907/2006	Not applicat	ble.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not applicat	ole.
Special packaging requirem	È	
Containers to be fitted with child-resistant fastenings	Not applicat	ble.
Tactile warning of danger	Not applicat	ble.

2.3 Other hazards

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.

Date of previous issue

SECTION 2: Hazards identification

Other hazards which do not result in classification

SECTION 3: Composition/information on ingredients

: None known.

3.2 Mixtures

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: Mixture

United Kingdom: Great Britain

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	EC: 500-191-5 CAS: 68082-29-1	≥25 - ≤50	Aquatic Chronic 2, H411	-	[1]
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl colyl ether and triethylenetetramine	REACH #: 01-2119983521-35 CAS: 186321-96-0 List #: 606-078-8	≥25 - ≤50	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
m-fenilenbis(methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0 Index: 216-032-5	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412	ATE [Oral] = 980 mg/kg ATE [Inhalation (gases)] = 4500 ppm	[1]
Phenol, styrenated	REACH #: 01-2119980970-27 EC: 262-975-0 CAS: 61788-44-1	≥10 - ≤25	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 2, H411	-	[1]
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	REACH #: 01-2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≤5	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1030 mg/kg ATE [Dermal] = 1100 mg/kg Skin Sens. 1, H317: C ≥ 0,001%	[1]
Amines, coco alkyl	REACH #: 01-2119473798-17 EC: 262-977-1 CAS: 61788-46-3 Index: 612-285-00-4	≤5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 STOT RE 2, H373 (gastrointestinal tract, immune system, liver) (oral) Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/kg STOT RE 2, H373: C ≥ 10% M [Acute] = 10 M [Chronic] = 10	[1]
2,4,6-tris (dimethylaminomethyl) ohenol	EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg	[1]
(dimethylaminomethyl)	CAS: 90-72-2 Index: 603-069-00-0	of previous is:	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Chronic 3, H412		

SECTION 3: Composition/information on ingredients

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3-aminopropyldimethylamine	EC: 203-680-9 CAS: 109-55-7 Index: 612-061-00-6	≤5	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335	ATE [Oral] = 1870 mg/kg ATE [Dermal] = 1100 mg/kg	[1]
3-aminopropyltriethoxysilane	EC: 213-048-4 CAS: 919-30-2 Index: 612-108-00-0	≤5	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318	ATE [Oral] = 500 mg/kg	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

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

Туре

[1] Substance classified with a health or environmental hazard

List numbers have no legal significance.

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

SECTION 4: First aid measures

4.1 Description of first aid m	eas	ures
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.

SECTION 4: First aid measures

Protection of first-aiders	: 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

Over-exposure signs/symptoms

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	:	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	None known.
5.2 Special hazards arising	from	I the substance 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 very 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 combustion products	:	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.

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	te	ctive 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 spilt material. Do not breathe vapour or mist. 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 spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
6.3 Methods and material for o	со	ntainment 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 the 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 spilt 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

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). 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 breathe vapour or mist. Do not ingest. 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) 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

SECTION 7: Handling and storage

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
E1	100 tonne	200 tonne

7.3 Specific end use(s) Recommendations

Not available.Not available.

Industrial sector specific solutions

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits	
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/ingredient name	Туре	Exposure	Value	Population	Effects
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	DNEL	Long term Oral	0,56 mg/ kg bw/day	General population	Systemic
·	DNEL	Long term Dermal	0,56 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0,97 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	1,1 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3,9 mg/m³	Workers	Systemic
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	DNEL	Short term Inhalation	20,1 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	20,1 mg/m ³	Workers	Local
	DNEL	Long term Oral	0,526 mg/ kg bw/day	General population [Consumers]	Systemic
2,4,6-tris(dimethylaminomethyl) phenol	DNEL	Long term Inhalation	0,31 mg/m³		Systemic
3-aminopropyltriethoxysilane	DNEL	Short term Dermal	8,3 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	59 mg/m³	Workers	Systemic

SECTION 8: Exposure controls/personal protection

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PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	Fresh water	0,06 mg/l	Assessment Factors
	Marine Fresh water sediment Marine water sediment Sewage Treatment Plant	0,006 mg/l 5,784 mg/kg 0,578 mg/kg 3,18 mg/l	Assessment Factors Assessment Factors Assessment Factors Assessment Factors
2,4,6-tris(dimethylaminomethyl)phenol 3-aminopropyltriethoxysilane	Soil Fresh water Fresh water Marine Sewage Treatment Plant Fresh water sediment Soil	1,121 mg/kg 0,84 mg/l 0,33 mg/l 0,033 mg/l 3,3 mg/l 0,26 mg/l 0,04 mg/l	Assessment Factors - - - - -

8.2 Exposure controls

Appropriate engineering controls	:	If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worke exposure to airborne contaminants below any recommended or statutory limits.						
Individual protection meas	ures							
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. Use eye protection according to EN 166. If contact is possible, the ollowing protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation nazards exist, a full-face respirator may be required instead. Recommended: chemical splash goggles and/or face shield.						
Date of issue/Date of revision		: 15/03/2023 Date of previous issue : 15/03/2023 Version : 3.02 8/20						

SECTION 8: Exposure controls/personal protection

Skin protection

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

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. > 8 hours (breakthrough time): nitrile rubber or butyl rubber (0.6 mm) gloves
		The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.
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. Recommended: (EN 467) Overalls buttoned to the neck and wrist.
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. Recommended: (EN 141) organic vapour (Type A) and acid gas (Type E) and particulate filter
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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Physical state Colour Odour	: Liquid. : Colourless. : Aromatic.
Odour threshold	: Not available.
Melting point/freezing point Initial boiling point and boiling range	: Not available. : >200°C (>392°F) [Literature]
Flammability (solid, gas)	: Not available.

SECTION 9: Physical and chemical properties

Lower and upper explosion limit	1	Not available.
Flash point Auto-ignition temperature		Closed cup: >100°C (>212°F) [Literature] 320°C (608°F) [Literature]
Decomposition temperature		Not available.
рН	1	11,3 [Literature]
pH : Justification	1	Not available.
Viscosity	:	Dynamic: 520 mPa⋅s [Literature] Kinematic: 514 mm²/s [Literature]
Solubility(ies)	1	
Not available.		
Solubility in water	:	Not available.
Partition coefficient: n-octanol/	:	Not applicable.

water

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Vapour pressure

		sure at 20°C	Vapour pressure at 50°C			
mm Hg	kPa	Method	mm Hg	kPa	Method	
0,01	0,0013					
: Not	available.	Į				
: 1						
: 1,01	l g/cm³ [Lite	erature]				
: Not	available.					
: Not	available.					
: Not	available.					
: Not	applicable.					
	0,01 : Not : 1 : 1,0 ¹ : Not : Not	0,01 0,0013 : Not available. : 1	0,01 0,0013 : Not available. : 1 : 1,01 g/cm³ [Literature] : Not available. : Not available.	0,01 0,0013 : Not available. : 1,01 g/cm³ [Literature] : Not available. : Not available. : Not available. : Not available. : Not available.	0,01 0,0013 : Not available. : 1 : 1,01 g/cm³ [Literature] : Not available. : Not available.	

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredient	is.
10.2 Chemical stability	: The product is stable.	
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
10.4 Conditions to avoid	: No specific data.	
10.5 Incompatible materials	: No specific data.	
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

SECTION 11: Toxicological information

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

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
m-fenilenbis(methylamine)	LC50 Inhalation Dusts and	Rat	1900 mg/m ³	1 hours
	mists		_	
	LC50 Inhalation Gas.	Rat	700 ppm	1 hours
	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	980 mg/kg	-
Phenol, styrenated	LD50 Dermal	Rabbit	>5010 mg/kg	-
-	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	2500 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
3-aminomethyl-	LD50 Dermal	Rat	>2000 mg/kg	-
3,5,5-trimethylcyclohexylamine				
	LD50 Oral	Rat	1030 mg/kg	-
Amines, coco alkyl	LD50 Oral	Rat	1300 mg/kg	-
2,4,6-tris	LD50 Dermal	Rabbit	1242 mg/kg	-
(dimethylaminomethyl)				
phenol				
	LD50 Oral	Rat	2169 mg/kg	-
3-aminopropyldimethylamine	LC50 Inhalation Vapour	Rat	24,8 mg/l	4 hours
	LD50 Oral	Rat	1870 mg/kg	-
3-aminopropyltriethoxysilane	LC50 Inhalation Vapour	Rat - Female	>7350 mg/m ³	4 hours
	LD50 Dermal	Rabbit	4,29 g/kg	-
	LD50 Dermal	Rabbit	4076 mg/kg	-
	LD50 Oral	Rat - Male	2,83 g/kg	-
	LD50 Oral	Rat - Female	1490 mg/kg	-

Conclusion/Summary : Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
m-fenilenbis(methylamine)	980	N/A	4500	N/A	1,5
Phenol, styrenated	2500	N/A	N/A	N/A	N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	1100	N/A	N/A	N/A
Amines, coco alkyl	1300	N/A	N/A	N/A	N/A
2,4,6-tris(dimethylaminomethyl)phenol	500	N/A	N/A	N/A	N/A
3-aminopropyldimethylamine	1870	1100	N/A	24,8	N/A
3-aminopropyltriethoxysilane	500	N/A	N/A	N/A	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	Eyes - Severe irritant	Rabbit	-	-	-
,	Skin - Mild irritant	Human	-	-	-
m-fenilenbis(methylamine)	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				Micrograms	
	Skin - Severe irritant	Rabbit	-	24 hours 750	-
				Micrograms	
Phenol, styrenated	Eyes - Mild irritant	Rabbit	-	0.1 Mililiters	-
	Skin - Mild irritant	Rabbit	-	0.5 Mililiters	-
3-aminomethyl-	Eyes - Cornea opacity	Rabbit	2	24 hours	-
3,5,5-trimethylcyclohexylamine					
	Skin - Severe irritant	Rabbit	-	4 hours	-
ate of issue/Date of revision	: 15/03/2023 Date of previo	us issue : 15	/03/2023	Vers	ion : 3.02 11/2

SECTION 11: Toxicological information

2,4,6-tris (dimethylaminomethyl)	Eyes - Severe irritant	Rabbit	-	24 hours 50 Micrograms	-
phenol				lineregrame	
	Skin - Mild irritant	Rat	-	0.025	-
				Mililiters	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Skin - Severe irritant	Rat	-	0.25 Mililiters	-
3-aminopropyldimethylamine	e Eyes - Moderate irritant	Rabbit	-	5 milligrams	-

Conclusion/Summary

Causes severe skin burns and eye damage.Causes serious eye damage.

Eyes Respiratory

: Based on available data, the classification criteria are not met.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine	skin	Mouse	Sensitising
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	skin	Guinea pig	Sensitising
2,4,6-tris (dimethylaminomethyl) phenol	skin	Guinea pig	Not sensitizing
3-aminopropyldimethylamine 3-aminopropyltriethoxysilane	skin skin	Guinea pig Guinea pig	Sensitising Sensitising

Conclusion/Summary

Skin

Respiratory

: May cause an allergic skin reaction.

: Based on available data, the classification criteria are not met.

Mutagenicity

Product/ingredient name	Test		Exp	eriment	Result	
3-aminopropyldimethylamine	Subj		Experiment: In vitro Subject: Mammalian-Animal Subject: Bacteria		Negative Negative	
Conclusion/Summary <u>Carcinogenicity</u>	: Based on available data, the classification criteria are not met.					
Conclusion/Summary <u>Reproductive toxicity</u>	: Based on	available dat	a, the classificat	ion criteria are not m	et.	
Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
2,4,6-tris (dimethylaminomethyl) phenol	-	-	Negative	Rat	Oral	28 days
Conclusion/Summary	• Based on	available dat	ta the classificat	ion criteria are not m	ot	4

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	Negative - Route of exposure unreported	Rat - Female	>250 mg/kg	-
Conclusion/Summary : Based on available data, the classification criteria are not met.				
Specific target organ toxicity (single exposure)				

SECTION 11: Toxicological informa	tion		
Product/ingredient name	Category	Route of exposure	Target organs
Amines, coco alkyl	Category 3	-	Respiratory tract irritation
3-aminopropyldimethylamine	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Information on likely routes : Not available.

Product/ingredient name	Category	Route of exposure	Target organs
Amines, coco alkyl	Category 2	oral	gastrointestinal tract, immune system, liver

Aspiration hazard

Product/ingredient na	me Result
Amines, coco alkyl	ASPIRATION HAZARD - Category 1

of exposurePotential acute health effectsEye 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: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain 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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Product/ingredient name	Result
0	

	Product/ingredient name	Result	:	Species	Dose	Expo	sure	
	3-aminopropyldimethylamine	Chronic NOAEL Or	al	Rat	50 mg/kg	28 da per v	ays; 7 da veek	ays
D	ate of issue/Date of revision	: 15/03/2023 Date	e of previous is	sue : 15/03/2	2023	Version	: 3.02	13/20

SECTION 11: Toxicological information

Conclusion/Summary	: Based on available data, the classification criteria are not met.
General	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
m-fenilenbis(methylamine)	Acute EC50 10 to 100 mg/l	Daphnia spec.	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
3-aminomethyl-	Acute EC50 37 mg/l	Algae - Desmodesmus	72 hours
3,5,5-trimethylcyclohexylamine	-	subspicatus	
	Acute EC50 23 mg/l	Daphnia spec.	48 hours
	Acute LC50 110 mg/l	Fish	96 hours
	Chronic NOEC 1,5 mg/l	Algae - Desmodesmus subspicatus	72 hours
	Chronic NOEC 3 mg/l	Daphnia spec.	21 days
Amines, coco alkyl	Acute EC50 0,09 mg/l	Daphnia spec.	48 hours
	Acute LC50 0,24 mg/l	Fish	96 hours
	Acute NOEC 0,032 mg/l	Daphnia spec.	48 hours
2,4,6-tris	Acute EC50 84 mg/l	Algae	72 hours
(dimethylaminomethyl) phenol	-		
	Acute EC50 41,3 mg/l	Daphnia spec.	48 hours
	Acute LC50 180 to 240 mg/l	Fish	96 hours
	Acute LC50 175 mg/l	Fish - Cyprinus carpio	96 hours
	Acute EC50 59,5 mg/l	Daphnia spec Daphnia magna	48 hours
	Acute IC50 53,5 mg/l	Algae	72 hours
	Acute LC50 122 mg/l	Fish	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
3-aminomethyl-	OECD 303A	42 % - Not readily - 3 days	-	-
3,5,5-trimethylcyclohexylamine				
	OECD 301A	8 % - Not readily - 28 days	-	-
Amines, coco alkyl	OECD 301D	91 % - Readily - 28 days	10 mg/l ThCO ₂	-
2,4,6-tris	OECD 301D	4 % - Not readily - 28 days	-	-
(dimethylaminomethyl)				
phenol				
3-aminopropyldimethylamine	-	>60 % - Readily - 28 days	-	-
3-aminopropyltriethoxysilane	EU 79/831 - C.	67 % - 28 days	-	-
	4-A			

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
3-aminomethyl-	-	-	Not readily
3,5,5-trimethylcyclohexylamine			
Amines, coco alkyl	-	-	Readily
2,4,6-tris	-	-	Not readily
(dimethylaminomethyl)			
phenol			
3-aminopropyldimethylamine	-	-	Readily
3-aminopropyltriethoxysilane	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
m-fenilenbis(methylamine)	0,18	2,69	low
3-aminomethyl-	0,99	-	low
3,5,5-trimethylcyclohexylamine			
Amines, coco alkyl	>3	>100	low
2,4,6-tris	0,219	-	low
(dimethylaminomethyl)			
phenol			
3-aminopropyldimethylamine	-0,352	-	low
3-aminopropyltriethoxysilane	1,7	3,4	low

12.4 Mobility in soil		
Soil/water partition coefficient (Koc)	: Not available.	
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

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised 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	: Yes.
European waste catalog	gue (EWC)

SECTION 13: Disposal considerations

Waste code	Waste designation
20 01 27*	paint, inks, adhesives and resins containing hazardous substances

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Special precautions
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: 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN2735	UN2735	UN2735	UN2735
14.2 UN proper shipping name	Amines, liquid, corrosive, N.O.S. (m- fenilenbis (methylamine))	Amines, liquid, corrosive, N.O.S. (m- fenilenbis (methylamine))	Amines, liquid, corrosive, N.O.S. (m- fenilenbis (methylamine)). Marine pollutant (Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine)	Amines, liquid, corrosive, N.O.S. (m- fenilenbis (methylamine))
14.3 Transport hazard class(es)	8			8
14.4 Packing group	111	111	111	111
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Limited quantity</u> : ≤ 5L <u>Tunnel code</u> (E)	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-A, S-B <u>Remarks</u> : ≤ 5L: Limited Quantity - IMDG 3.4	The environmentally hazardous substance mark may appear if required by other transportation regulations. Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y841.

SECTION 14: Transport information

14.6 Special precautions for	1	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk	: Not available.
according to IMO	
instruments	

SECTION 15: Regulatory information

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

Other EU regulations

Other ED regulations	
VOC	: The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.
VOC for Ready-for-Use Mixture	: 2004/42/EC - IIA/j: 500g/l (2010). <= 10g/l VOC.
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
United Kingdom: Great Brit	tain
UK (GB) /REACH	
Annex XIV - List of substan	ces subject to authorisation
None of the components ar	re listed.
Substances of very high c None of the components ar	
Ozone depleting substance Not listed.	<u>25</u>
Prior Informed Consent (Ple Not listed.	<u>C)</u>
Persistent Organic Pollutar Not listed.	<u>nts</u>
Aerosol dispensers	:
Seveso Directive	
This product is controlled unc Danger criteria	ler the Seveso Directive.
Category	
E1	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
International regulations	

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SECTION 15: Regulatory information

Stockholm Convention on Persistent Organic Pollutants

List name	Ingredient name	Status		
Not listed.				

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

List name Not listed.			Ingredient name	Status
CN code : 3208 90 99	00			
Inventory list				
Australia	:	Not determined	d.	
Canada	:	At least one co NDSL.	omponent is not listed in DSL but all such compone	ents are listed in
China	1	Not determined	d.	
Eurasian Economic Union	:	Russian Fede	ration inventory: Not determined.	
Japan	:	•	ory (CSCL): Not determined. ory (ISHL): Not determined.	
New Zealand	:	All components	s are listed or exempted.	
Philippines	:	Not determined	d.	
Republic of Korea	:	All components	s are listed or exempted.	
Taiwan	:	All components	s are listed or exempted.	
Thailand	:	Not determined	d.	
Turkey	:	Not determined	d.	
United States	:	Not determined	d.	
Viet Nam	1	Not determined	d.	
5.2 Chemical safety ssessment	:	This product co required.	ontains substances for which Chemical Safety Ass	essments are s

SECTION 16: Other information

 Indicates information that has changed from previously issued version.
 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
Skin Corr. 1, H314	Expert judgment
Eye Dam. 1, H318	Expert judgment
Skin Sens. 1, H317	Expert judgment
Aquatic Acute 1, H400	Expert judgment
Aquatic Chronic 1, H410	Expert judgment

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SECTION 16: Other information

Full text of abbreviated H statements

United Kingdom: Great Brita		
United Kingdom: Great Brital Full text of abbreviated H statements	 Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. Causes serious eye damage. Causes serious eye damage. May cause an allergic skin reaction. Harmful if inhaled. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects. LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 puatic LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 hronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 sp. Tox. 1 ASPIRATION HAZARD - Category 1 ye Dam. 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 	
		JRE -
Date of printing	5/03/2023	
Date of issue/ Date of revision	5/03/2023	
Date of previous issue	5/03/2023	
Version	02	
Notice to reader		

Notice to reader

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage,

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SECTION 16: Other information

application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.