

This safety data sheet was created pursuant to the requirements of:
UK REACH Regulations (SI 2019/758 as amended)

Revision date 07-Oct-2025

Revision Number 1

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

1.1. Product identifier

Product Code(s) 127169
Safety data sheet number 127169
Product Name GURIT BONDPRO 210 HARDENER
Pure substance/mixture Mixture

Contains FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE;
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER;
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; PHENOL, 4,4"-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH
5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE; 2,2'-IMINODIETHYLAMINE

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

Recommended use Hardener
Crosslinking Agent
Industrial use
Professional use

1.3. Details of the supplier of the safety data sheet

Supplier

Univar Solutions UK Ltd
Aquarius House
6 Mid Point Business Park
Bradford
GBR

For further information, please contact

E-mail address SDS.EMEA@univarsolutions.com
Non-Emergency Telephone Number +44 1274 267300 / +44 1274 267306

1.4. Emergency telephone number

Emergency Telephone SGS - +32 (0)3 575 55 55 (24h)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 1 Sub-category B - (H314)
----------------------------------	------------------------------------

Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE;
 2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER;
 3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE; PHENOL, 4,4''-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH
 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE; 2,2'-IMINODIETHYLAMINE



Signal word

Danger

Hazard statements

H314 - Causes severe skin burns and eye damage

H317 - May cause an allergic skin reaction

H411 - Toxic to aquatic life with long lasting effects

Precautionary statements

P260 - Do not breathe vapour

P264 - Wash hands thoroughly after handling

P272 - Contaminated work clothing should not be allowed out of the workplace

P273 - Avoid release to the environment

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Unknown acute toxicity

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
FATTY ACIDS, TALL-OIL, REACTION	10 - 20%	629-715-1	-	Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317)	-	-	-

PRODUCTS WITH DIETHYLENETRIAMINE 1226892-43-8				Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)			
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL 90-72-2	5 - 10%	202-013-9 (603-069-00-0)	-	Acute Tox. 4 (H302) Skin Corr. 1C (H314) Eye Dam. 1 (H318)	-	-	-
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER 4246-51-9	1 - 5%	224-207-2	-	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens.1 (H317)	-	-	-
PHENOL, 4,4''-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL) OXIRANE 38294-64-3	1 - 3%	500-101-4	-	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens.1 (H317) Aquatic Chronic 3 (H412)	-	-	-
BENZYL ALCOHOL 100-51-6	1 - 3%	202-859-9 (603-057-00-5)	-	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)	-	-	-
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE 2855-13-2	1 - 3%	220-666-8 (612-067-00-9)	-	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens.1A (H317) Aquatic Chronic 3 (H412)	Skin Sens. 1A :: C>=0.001%	-	-
2,2'-IMINODIETHYLAMINE 111-40-0	< 1%	203-865-4 (612-058-00-X)	-	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 2 (H330) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens.1 (H317) STOT SE 3 (H335)	-	-	-

Full text of H- and EUH-phrases: see section 16

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (UK REACH Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

Inhalation

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep

	eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical attention.
Skin contact	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Get immediate medical attention.
Ingestion	Rinse mouth thoroughly with water. Do NOT induce vomiting. Get immediate medical attention.
Self-protection of the first aider	Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid breathing vapours or mists. Use personal protective equipment as required. See section 8 for more information.

4.2. Most important symptoms and effects, both acute and delayed

Eyes	Causes serious eye damage.
Dermal	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Causes digestive tract burns

4.3. Indication of any immediate medical attention and special treatment needed

Note to doctors	Product is a corrosive material. Use of gastric lavage or emesis is contra-indicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. May cause sensitisation in susceptible persons. Treat symptomatically.
------------------------	--

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media	Dry chemical, CO ₂ , alcohol-resistant foam or water spray.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	Exposure to combustion products may be a hazard to health. The material is toxic to aquatic life with long lasting effects. Do not allow run-off from fire-fighting to enter drains or water courses.
Hazardous combustion products	May emit toxic fumes under fire conditions.

5.3. Advice for firefighters

Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Cool containers with flooding quantities of water until well after fire is out. Collect contaminated fire extinguishing water separately. Do not allow it to enter drains or surface water.
---	---

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Avoid contact with skin, eyes and inhalation of vapours. Ensure adequate ventilation. Use personal protection recommended in Section 8. Do not touch or walk through spilled material. Keep unnecessary and unprotected personnel from entering. Evacuate personnel to safe areas.
Other information	Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions	Prevent further leakage or spillage if safe to do so. Do not allow runoff to sewer, waterway or ground. Local authorities should be advised if significant spillages cannot be contained.
----------------------------------	---

6.3. Methods and material for containment and cleaning up

Methods for containment	Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13).
Methods for cleaning up	Clean contaminated objects and areas thoroughly observing environmental regulations.
Prevention of secondary hazards	Observe good chemical hygiene practices.

6.4. Reference to other sections

Reference to other sections	See section 8 for more information. See section 13 for more information.
------------------------------------	--

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Advice on safe handling	Ensure adequate ventilation. Avoid contact with skin, eyes and inhalation of vapours. Use personal protection recommended in Section 8. Handle all packages and containers carefully to minimise spills.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing and wash it before reuse. Wash work clothing and protective equipment separately from regular wash. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container. Store locked up. Keep away from heat. Keep at a temperature not exceeding 30 °C. Closed containers can burst violently when heated, due to excess pressure build-up.
---------------------------	--

7.3. Specific end use(s)

Specific use(s)	See section 1 for more information.
------------------------	-------------------------------------

Risk Management Methods (RMM) The information required is contained in this Safety Data Sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
2,2'-IMINODIETHYLAMINE 111-40-0	TWA: 1 ppm TWA: 4.3 mg/m ³ STEL: 3 ppm STEL: 12.9 mg/m ³ Sk*

Biological occupational exposure limits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE 1226892-43-8		0.25 mg/kg [4] [6]	0.88 mg/m ³ [4] [6]
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER 4246-51-9		8.3 mg/kg bw/day [4] [6]	59 mg/m ³ [4] [6] 176 mg/m ³ [4] [7] 1 mg/m ³ [5] [6] 13 mg/m ³ [5] [7]
PHENOL, 4,4''-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE 38294-64-3		0.14 mg/kg bw/day [4] [6]	0.493 mg/m ³ [4] [6]
BENZYL ALCOHOL 100-51-6		8 mg/kg/day [4] [6] 40 mg/kg/day [4] [7]	22 mg/m ³ [4] [6] 110 mg/m ³ [4] [7]
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE 2855-13-2			0.073 mg/m ³ [5] [6] 0.073 mg/m ³ [5] [7]
2,2'-IMINODIETHYLAMINE 111-40-0		11.4 mg/kg bw/day [4] [6] 1.1 mg/cm ² [5] [6]	15.4 mg/m ³ [4] [6] 92.1 mg/m ³ [4] [7] 0.87 mg/m ³ [5] [6] 2.6 mg/m ³ [5] [7]

[4] Systemic health effects.
[5] Local health effects.
[6] Long term.
[7] Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
FATTY ACIDS, TALL-OIL, REACTION	0.18 mg/kg [4] [6]	0.18 mg/kg [4] [6]	0.6 mg/m ³ [4] [6]

Chemical name	Oral	Dermal	Inhalation
PRODUCTS WITH DIETHYLENETRIAMINE 1226892-43-8			
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER 4246-51-9	5 mg/kg bw/day [4] [6]		17 mg/m ³ [4] [6] 52 mg/m ³ [4] [7] 0.5 mg/m ³ [5] [6] 6.5 mg/m ³ [5] [7]
PHENOL, 4,4"-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOH EXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE 38294-64-3	50 µg/kg bw/day [4] [6]		74 µg/m ³ [4] [6]
BENZYL ALCOHOL 100-51-6	4 mg/kg/day [4] [6] 20 mg/kg/day [4] [7]	4 mg/kg/day [4] [6] 20 mg/kg/day [4] [7]	5.4 mg/m ³ [4] [6] 27 mg/m ³ [4] [7]
3-AMINOMETHYL-3,5,5-TRIMETHYL CYCLOHEXYLAMINE 2855-13-2	0.526 mg/kg bw/day [4] [6]		
2,2'-IMINODIETHYLAMINE 111-40-0		4.88 mg/kg bw/day [4] [6] 4.88 mg/kg bw/day [4] [7]	4.6 mg/m ³ [4] [6] 27.5 mg/m ³ [4] [7]

[4] Systemic health effects.
 [5] Local health effects.
 [6] Long term.
 [7] Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE 1226892-43-8	5.1 µg/l		0.51 µg/l		
2,4,6-TRIS(DIMETHYLAMI NOMETHYL)PHENOL 90-72-2	0.084 mg/L	0.84 mg/L	0.0084 mg/L		
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER 4246-51-9	0.22 mg/L	2.2 mg/L	0.022 mg/L		
PHENOL, 4,4"-(1-METHYLETHYLID ENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETH YLCYCLOHEXANEMETH ANAMINE AND (CHLOROMETHYL)OXIR ANE 38294-64-3	0.0111 mg/L	0.111 mg/L	0.00111 mg/L		
3-AMINOMETHYL-3,5,5-T RIMETHYLCYCLOHEXYL AMINE	0.06 mg/L	0.23 mg/L	0.006 mg/L		

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
2855-13-2					
2,2'-IMINODIETHYLAMINE 111-40-0	0.56 mg/L	0.32 mg/L	0.056 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE 1226892-43-8	99.4 mg/kg	9.94 mg/kg		9.44 mg/kg	5.57 mg/l
2,4,6-TRIS(DIMETHYLAMI NOMETHYL)PHENOL 90-72-2			0.2 mg/L		
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER 4246-51-9	1.1 mg/kg sediment dw	0.11 mg/kg sediment dw	125 mg/L	0.0907 mg/kg soil dw	
PHENOL, 4,4"-(1-METHYLETHYLID ENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETH YLCYCLOHEXANEMETH ANAMINE AND (CHLOROMETHYL)OXIR ANE 38294-64-3	4320 mg/kg sediment dw	432 mg/kg sediment dw	10 mg/L	864 mg/kg soil dw	1 mg/kg food
3-AMINOMETHYL-3,5,5-T RIMETHYLCYCLOHEXYL AMINE 2855-13-2	5.784 mg/kg sediment dw	0.578 mg/kg sediment dw	3.18 mg/L	1.121 mg/kg soil dw	
2,2'-IMINODIETHYLAMINE 111-40-0	1072 mg/kg sediment dw	107.2 mg/kg sediment dw	6 mg/L	7.97 mg/kg soil dw	

8.2. Exposure controls

Engineering controls

Ensure adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal protective equipment

Eye/face protection

Wear safety glasses with side shields (or goggles). Use eye protection according to EN 166.

Hand protection

Chemical resistant gloves required for prolonged or repeated contact. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. Examples of acceptable glove barrier materials include: Nitrile rubber. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Nitrile rubber	0.26 mm	

Skin and body protection	Wear appropriate clothing to prevent reasonably probable skin contact. EN13034.
Respiratory protection Recommended filter type:	In case of inadequate ventilation wear respiratory protection. Half-face mask with combined filter. EN 405.
General hygiene considerations	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using the product. Remove contaminated clothing and protective equipment before entering eating areas. Wash hands before breaks and immediately after handling the product. Take off all contaminated clothing and wash it before reuse. Wash work clothing and protective equipment separately from regular wash. Contaminated work clothing should not be allowed out of the workplace.
Environmental exposure controls	Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Paste
Colour	light yellow
Odour	Amine-like.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point		Not applicable.
Initial boiling point and boiling range		No information available.
Flammability		Not applicable.
Flammability Limit in Air		No information available.
Upper flammability or explosive limits		
Lower flammability or explosive limits		
Flash point		No information available.
Autoignition temperature		No information available.
Decomposition temperature		No information available.
pH	10 - 12	Estimated.
pH (as aqueous solution)		No information available.
Kinematic viscosity		No information available.
Dynamic viscosity		No information available.
Water solubility	No data available	No information available.
Solubility(ies)		No information available.
Partition coefficient		No information available.
Vapour pressure		No information available.
Relative density		No information available.
Bulk density		No information available.
Liquid Density	1.11 g/cm3	No information available.
Relative vapour density		No information available.
Particle characteristics		No information available.
Particle Size	No information available	
Particle Size Distribution	No information available	
Explosive properties	No information available	
Oxidising properties	No information available	

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stability Stable under recommended storage conditions.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None under normal use conditions. See section 7 for more information.

10.5. Incompatible materials

Incompatible materials No information available.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

Inhalation	Vapours may be irritating to eyes, nose, throat, and lungs.
Eye contact	Causes serious eye damage.
Skin contact	Causes severe burns. May cause an allergic skin reaction.
Ingestion	Ingestion causes burns of the upper digestive and respiratory tracts.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Redness. Burning. May cause blindness. Coughing and/ or wheezing. Itching. Rashes. Hives.

Acute toxicity**Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	6,865.60 mg/kg
ATEmix (dermal)	18,014.30 mg/kg
ATEmix (inhalation-gas)	123,206.90 ppm

ATEmix (inhalation-vapour) 301.20 mg/l
 ATEmix (inhalation-dust/mist) 3.8515 mg/l

Unknown acute toxicity**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	= 1200 mg/kg (Rat)	= 1280 mg/kg (Rat)	-
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER	= 4290 mg/kg (Rat)	= 2525 mg/kg (Rabbit)	-
BENZYL ALCOHOL	= 1230 mg/kg (Rat)	-	> 4178 mg/m ³ (Rat) 4 h
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE	= 1030 mg/kg (Rat)	> 2000 mg/kg (Rat)	> 5.01 mg/L (Rat) 4 h 1.07 - 5.01 mg/L (Rat) 4 h
2,2'-IMINODIETHYLAMINE	= 1080 mg/kg (Rat)	= 672 mg/kg (Rabbit)	= 70 mg/L (Rat) 4 h

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Skin corrosion/irritation**

Classification based on data available for ingredients. Causes severe skin burns and eye damage.

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE (1226892-43-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Corrosive

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Corrosive

DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER (4246-51-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Corrosive

PHENOL, 4,4"-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE (38294-64-3)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 431: In vitro skin corrosion: reconstructed human epidermis (RHE) test method	Reconstructed human epidermis (RhE)	Dermal			Predicted to be corrosive

BENZYL ALCOHOL (100-51-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 404: Acute Dermal Irritation/Corrosion	Rabbit	Dermal			Slightly irritating

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (2855-13-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Corrosive

2,2'-IMINODIETHYLAMINE (111-40-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	Dermal			Corrosive

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage.

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE (1226892-43-8)

Method	Species	Exposure route	Effective dose	Exposure time	Results
		eye			Causes serious eye damage

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
16 CFR 1500.42	Rabbit	eye			Extremely irritating, probably corrosive.

DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER (4246-51-9)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			Causes serious eye damage

BENZYL ALCOHOL (100-51-6)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Causes serious eye irritation

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (2855-13-2)

Method	Species	Exposure route	Effective dose	Exposure time	Results
OECD Test No. 405: Acute Eye Irritation/Corrosion	Rabbit	eye			Corrosive

2,2'-IMINODIETHYLAMINE (111-40-0)

Method	Species	Exposure route	Effective dose	Exposure time	Results
	Rabbit	eye			Corrosive

Respiratory or skin sensitisation May cause an allergic skin reaction.

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE (1226892-43-8)

Method	Species	Exposure route	Results
	Guinea pig	Dermal	Sensitising

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Mild sensitizer

DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER (4246-51-9)

Method	Species	Exposure route	Results
			Sensitising Calculation method

BENZYL ALCOHOL (100-51-6)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitization	Mouse	Dermal	Not a skin sensitizer

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (2855-13-2)

Method	Species	Exposure route	Results
OECD Test No. 406: Skin Sensitisation	Guinea pig	Dermal	Sensitising

2,2'-IMINODIETHYLAMINE (111-40-0)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitization	Mouse	Dermal	Sensitising

Germ cell mutagenicity Based on available data the classification criteria are not met.

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity Based on available data the classification criteria are not met.

STOT - single exposure Based on available data the classification criteria are not met.

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard Based on available data the classification criteria are not met.

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE	-	LC50: =0.19mg/L (96h, Danio rerio)	-	-
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	EC50 46.7 mg/l (72hr) Algae	LC50 >100 mg/l (96hr) Fish	-	EC50 >100 mg/l (48hr)
BENZYL ALCOHOL	-	LC50: =460mg/L (96h, Pimephales promelas) LC50: =10mg/L (96h, Lepomis macrochirus)	-	EC50: =23mg/L (48h, water flea)
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE	EC50: =37mg/L (72h, Desmodesmus subspicatus)	-	-	EC50: 14.6 - 21.5mg/L (48h, Daphnia magna)
2,2'-IMINODIETHYLAMINE	EC50: =1164mg/L (72h, Pseudokirchneriella subcapitata) EC50: =345.6mg/L (96h, Pseudokirchneriella subcapitata) EC50: =592mg/L (96h, Desmodesmus subspicatus)	LC50: =248mg/L (96h, Poecilia reticulata) LC50: =1014mg/L (96h, Poecilia reticulata)	-	EC50: =16mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability The product contains substances which are biodegradable.

FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE (1226892-43-8)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	60 days	61% Biodegradation	Inherently Biodegradable

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (90-72-2)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	28 days	4% Biodegradation	Not readily biodegradable

DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER (4246-51-9)

Method	Exposure time	Value	Results
OECD Test No. 301B: Ready Biodegradability: CO2 Evolution Test (TG 301 B)	60 days	< 20% Biodegradation	Not readily biodegradable

PHENOL, 4,4"-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE (38294-64-3)

Method	Exposure time	Value	Results
OECD Test No. 301F: Ready Biodegradability: Manometric Respirometry Test (TG 301 F)	28 days	0% Biodegradation	Not readily biodegradable

BENZYL ALCOHOL (100-51-6)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	14 days	92 - 96% Biodegradation	Readily biodegradable

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (2855-13-2)

Method	Exposure time	Value	Results
EC) No. 440/2008, Annex, C.4-A		8% Biodegradation	Not readily biodegradable

2,2'-IMINODIETHYLAMINE (111-40-0)

Method	Exposure time	Value	Results
OECD Test No. 301D: Ready Biodegradability: Closed Bottle Test (TG 301 D)	21 days	87% Biodegradation	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.

Component Information

Chemical name	Partition coefficient
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE	2.2
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER	-1.25
PHENOL, 4,4"-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE	3.6
BENZYL ALCOHOL	1.05
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE	0.99
2,2'-IMINODIETHYLAMINE	-1.3

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
FATTY ACIDS, TALL-OIL, REACTION PRODUCTS WITH DIETHYLENETRIAMINE	The substance is not PBT / vPvB
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL	The substance is not PBT / vPvB
DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER	The substance is not PBT / vPvB
PHENOL, 4,4''-(1-METHYLETHYLIDENE)BIS-, POLYMER WITH 5-AMINO-1,3,3-TRIMETHYLCYCLOHEXANEMETHANAMINE AND (CHLOROMETHYL)OXIRANE	The substance is not PBT / vPvB
BENZYL ALCOHOL	The substance is not PBT / vPvB
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE	The substance is not PBT / vPvB
2,2'-IMINODIETHYLAMINE	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods**

Waste from residues/unused products Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

Contaminated packaging Do not reuse empty containers. Empty remaining contents. Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information**IATA**

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. [2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER]
14.3 Transport hazard class(es)	8
14.4 Packing group	II
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	A3, A803
ERG Code	8L

IMDG

14.1 UN number or ID number	UN2735
14.2 UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. [2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; DIETHYLENE GLYCOL BIS(3-AMINOPROPYL) ETHER]
14.3 Transport hazard class(es)	8
14.4 Packing group	II
14.5 Environmental hazards	Yes

14.6 Special precautions for user

Special Provisions 274
EmS-No F-A, S-B

14.7 Maritime transport in bulk according to IMO instruments No information available**RID**

14.1 UN number or ID number UN2735
14.2 UN proper shipping name POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 [2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; DIETHYLENE GLYCOL
 BIS(3-AMINOPROPYL) ETHER]
14.3 Transport hazard class(es) 8
14.4 Packing group II
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 274
Classification code C7

ADR

14.1 UN number or ID number UN2735
14.2 UN proper shipping name POLYAMINES, LIQUID, CORROSIVE, N.O.S.
 [2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL; DIETHYLENE GLYCOL
 BIS(3-AMINOPROPYL) ETHER]
14.3 Transport hazard class(es) 8
14.4 Packing group II
14.5 Environmental hazards Yes
14.6 Special precautions for user
Special Provisions 274
Classification code C7
Tunnel restriction code (E)

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****National regulations****Authorisations and/or restrictions on use:**

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

This product does not contain substances subject to authorisation (UK REACH - Annex XIV).

Product restricted per REACH Annex XVII: 3

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL - 90-72-2	75	-

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Dangerous substance category per COMAH Regulations 2015 (as amended)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

Named dangerous substances per COMAH Regulations 2015 (as amended)

Not applicable

The Ozone-Depleting Substances Regulations 2015

Not applicable

The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as Amended)

Not applicable

International Inventories

TSCA	Contact supplier for inventory compliance status
DSL/NDL	Contact supplier for inventory compliance status
EINECS/ELINCS	Contact supplier for inventory compliance status
ENCS	Contact supplier for inventory compliance status
IECSC	Contact supplier for inventory compliance status
KECI	Contact supplier for inventory compliance status
PICCS	Contact supplier for inventory compliance status
AIIC	Contact supplier for inventory compliance status
NZIoC	Contact supplier for inventory compliance status

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AIIC - Australian Inventory of Industrial Chemicals
NZIoC - New Zealand Inventory of Chemicals

15.2. Chemical safety assessment

Chemical Safety Report

No Chemical Safety Assessment has been carried out for this substance/mixture

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H302 - Harmful if swallowed
H312 - Harmful in contact with skin
H314 - Causes severe skin burns and eye damage
H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H330 - Fatal if inhaled
H332 - Harmful if inhaled
H335 - May cause respiratory irritation
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

SVHC: Substances of Very High Concern for Authorisation:

PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances
 vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

Legend Section 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers		

Revision Note **Not applicable**

Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)
 U.S. Environmental Protection Agency ChemView Database
 European Food Safety Authority (EFSA)
 European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
 European Chemicals Agency (ECHA) (ECHA_API)
 Environmental Protection Agency
 Acute Exposure Guideline Level(s) (AEGL(s))
 U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act
 U.S. Environmental Protection Agency High Production Volume Chemicals
 Food Research Journal
 Hazardous Substance Database
 International Uniform Chemical Information Database (IUCLID)
 National Institute of Technology and Evaluation (NITE)
 Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
 NIOSH (National Institute for Occupational Safety and Health)
 National Library of Medicine's ChemID Plus (NLM CIP)
 National Library of Medicine's PubMed database (NLM PUBMED)
 U.S. National Toxicology Program (NTP)
 New Zealand's Chemical Classification and Information Database (CCID)
 Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications
 Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme
 Organisation for Economic Co-operation and Development Screening Information Data Set
 World Health Organization

Prepared By J Forth

Revision date 07-Oct-2025

**This material safety data sheet complies with the requirements of UK REACH Regulations (SI 2019/758 as amended)
 Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

Disclaimer

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.

End of Safety Data Sheet