



SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

BOSTIK HYTEC E336 XTREM - HARDENER
Supersedes Date: 14-Jun-2022

Revision date 18-Jul-2022
Revision Number 3

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

1.1. Product identifier

Product Name BOSTIK HYTEC E336 XTREM - HARDENER
Pure substance/mixture Mixture

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

Recommended use Curing chemical
Uses advised against None known

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik Limited
Common Rd
ST16 3EH
Stafford UK
Tel: +44 (1785) 27 26 25
Fax: +44 (1785) 25 72 36

E-mail address SDS.box-EU@bostik.com

1.4. Emergency telephone number

United Kingdom +44 (1785) 272650
Ireland **NPIC - National Poison Information Centre**
Members of the Public: +353 (01) 8092166 (8.00 am to 10.00 pm - 7 days a week)
Healthcare Professionals: +353 (01) 8092566 (24 hour service)
Europe 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1A - (H317)
Specific target organ toxicity — repeated exposure	Category 2 - (H373)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine, Formaldehyde, polymer with benzenamine, hydrogenated, Amines, polyethylenepoly-, triethylenetetramine fraction, 2,4,6-Tri(dimethylaminomethyl)phenol, Salicylic acid

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Signal word
Warning

Hazard statements

H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H373 - May cause damage to organs through prolonged or repeated exposure.
H411 - Toxic to aquatic life with long lasting effects.

Precautionary Statements - EU (§28, 1272/2008)

P101 - If medical advice is needed, have product container or label at hand
P102 - Keep out of reach of children
P260 - Do not breathe vapour
P280 - Wear protective gloves and eye/face protection
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
P273 - Avoid release to the environment
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product requires tactile warnings if supplied to the general public.

2.3. Other hazards

May be harmful if swallowed. May be harmful in contact with skin. Toxic to aquatic life.

PBT & vPvB

This mixture contains no substance considered to be persistent, bioaccumulating or toxic (PBT). This mixture contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	REACH registration number
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	500-191-5	68082-29-1	40 - <80	Skin Irrit. 2 (H315) Eye Dam. 1 (H318) Skin Sens. 1A (H317) Aquatic Chronic 2	-	01-2119972320-44-xxxx

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				(H411)		
Formaldehyde, polymer with benzenamine, hydrogenated	-	135108-88-2	15 - 25	Acute Tox. 3 (H301) Skin Corr. 1C (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) STOT RE 2 (H373) Aquatic Chronic 3 (H412)	-	01-2119983522-33-XXXX
Benzyl alcohol	202-859-9	100-51-6	15 - 25	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)	-	01-2119492630-38-XXXX
2,4,6-tris(dimethylamino methyl)phenol	202-013-9	90-72-2	1 - <5	Acute Tox. 4 (H302) Skin Corr. 1C (H314) Eye Dam. 1 (H318)	-	01-2119560597-27-XXXX
Salicylic acid	200-712-3	69-72-7	1 - <3	Eye Dam. 1 (H318) Acute Tox. 4 (H302) Repr. 2 (H361d)	-	01-2119486984-17-XXXX
Amines, polyethylenepoly-, triethylenetetramine fraction	292-588-2	90640-67-8	1 - <3	Acute Tox. 4 (H312) Acute Tox. 4 (H302) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Aquatic Chronic 3 (H412)	-	01-2119487919-13-XXXX

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

Note: ^ indicates not classified, however, the substance is listed in section 3 as it has an OEL

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice Show this safety data sheet to the doctor in attendance.

Inhalation Remove to fresh air. Get medical attention immediately if symptoms occur.

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Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

Symptoms Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

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

Note to doctors May cause sensitisation in susceptible persons. Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical Product is or contains a sensitiser. May cause sensitisation by skin contact.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂). Nitrogen oxides (NO_x).

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. Use personal protection equipment.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

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.

6.3. Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so.

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Methods for cleaning up Take up mechanically, placing in appropriate containers for disposal.
Prevention of secondary hazards Clean contaminated objects and areas thoroughly observing environmental regulations.

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 Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

General hygiene considerations Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

7.3. Specific end use(s)

Specific use(s)
Curing chemical.

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

Other information Observe technical data sheet.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Derived No Effect Level (DNEL) No information available

Derived No Effect Level (DNEL)			
Benzyl alcohol (100-51-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	22 mg/m ³	
worker Short term Systemic health effects	Inhalation	110 mg/m ³	
worker Long term Systemic health effects	Dermal	8 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	40 mg/kg bw/d	

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2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects worker	Inhalation	0.53 mg/m ³	
Short term Systemic health effects worker	Inhalation	2.1 mg/m ³	
Long term Systemic health effects worker	Dermal	0.15 mg/kg	
Short term Systemic health effects worker	Dermal	0.6 mg/kg	

Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	0.54 mg/m ³	

Derived No Effect Level (DNEL)			
Benzyl alcohol (100-51-6)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	5.4 mg/m ³	
Consumer Short term Systemic health effects	Inhalation	27 mg/m ³	
Consumer Long term Systemic health effects	Dermal	4 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	20 mg/kg bw/d	
Consumer Long term Systemic health effects	Oral	4 mg/kg bw/d	
Consumer Short term Systemic health effects	Oral	20 mg/kg bw/d	

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Long term Systemic health effects Consumer	Inhalation	0.13 mg/m ³	
Short term Systemic health effects Consumer	Inhalation	0.13 mg/m ³	
Long term Systemic health effects Consumer	Dermal	0.075 mg/kg	
Short term Systemic health effects	Dermal	0.075 mg/kg	

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Consumer			
Long term Systemic health effects Consumer	Oral	0.075 mg/kg	

Predicted No Effect Concentration (PNEC) No information available.

Predicted No Effect Concentration (PNEC)	
Benzyl alcohol (100-51-6)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	1 mg/l
Marine water	0.1 mg/l
Microorganisms in sewage treatment	39 mg/l
Freshwater sediment	5.27 mg/kg dry weight
Marine sediment	0.527 mg/kg dry weight
Soil	0.456 mg/kg dry weight
Freshwater - intermittent	2,3 mg/l

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.046 mg/l
Marine water	0.005 mg/l
Sewage treatment plant	0.262 mg/l
Freshwater - intermittent	0.46 mg/l
Soil	0.025 mg/kg

Amines, polyethylenepoly-, triethylenetetramine fraction (90640-67-8)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.027 mg/l
Freshwater - intermittent	0.2 mg/l
Marine water	0.003 mg/l
Sewage treatment plant	0.13 mg/l
Freshwater sediment	8.572 mg/kg dry weight
Marine sediment	0.857 mg/kg dry weight

8.2. Exposure controls

Engineering controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

- Eye/face protection** Wear safety glasses with side shields (or goggles). Wear chemical splash goggles and face shield when eye and face contact is possible due to splashing or spraying of material.
- Hand protection** Recommended Use: Nitrile rubber. Butyl rubber. Glove thickness > 0.7mm. The breakthrough time for the mentioned glove material is in general greater than 240 min. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves. The breakthrough time of the gloves depends on the material and the thickness as well as the temperature. Unsuitable protective clothing. Leather. Disposable gloves. Gloves must conform to standard EN 374
- Skin and body protection** Suitable protective clothing.
- Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment. During spraying wear suitable respiratory equipment.
- Recommended filter type:** Wear a respirator conforming to EN 140 with Type A/P2 filter or better. Organic gases and vapours filter conforming to EN 14387.

Environmental exposure controls Do not allow uncontrolled discharge of product into the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Physical state	Liquid
Appearance	Liquid
Colour	Amber
Odour	Amine.
Odour threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	> 177 °C	
Flammability	Not applicable for liquids .	
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	117 °C	
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	10	
pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	3000 - 4500 mPa s	@ 23 °C
Water solubility	No data available slightly soluble	
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	3	
Relative density	0.98 - 1.02	
Bulk Density	No data available	
Density	No data available	
Relative vapour density	No data available	None known
Particle characteristics		
Particle Size	No information available	
Particle Size Distribution	No information available	

9.2. Other information

Solid content (%)	No information available
VOC Content (%)	No data available

9.2.1. Information with regards to physical hazard classes
Not applicable

9.2.2. Other safety characteristics
No information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	No information available.
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10.2. Chemical stability

Stability	Stable under normal conditions.
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Explosion data

Sensitivity to mechanical impact	None.
Sensitivity to static discharge	None.

10.3. Possibility of hazardous reactions

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Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid

Conditions to avoid None known based on information supplied.

10.5. Incompatible materials

Incompatible materials Strong acids. Strong bases. Strong oxidising agents.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Thermal decomposition can lead to release of toxic/corrosive gases and vapours. Ammonia. Amines.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	May cause sensitisation by skin contact. Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes skin irritation.
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

Acute toxicity

Numerical measures of toxicity

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

ATEmix (dermal) 4,060.90 mg/kg
ATEmix (inhalation-dust/mist) 20.90 mg/l

Oral LD50 2020 mg/kg (rat)

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	LD50 > 2000 mg/kg)	LD50 > 2000 mg/kg (Rattus)	-
Formaldehyde, polymer with benzenamine, hydrogenated	LD50 >50 - <= 300 mg/kg (rat)	-	-
Benzyl alcohol	LD50 = 1620 mg/kg (Rattus)	> 2 g/kg (Oryctolagus cuniculus)	>4.17 mg/L (Rattus) 4 h

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2,4,6-tris(dimethylaminomethyl)phenol	LD50 > 1 916 - < 2 455 mg/kg (Rattus)	> 1 ml/kg (Rat)	-
Salicylic acid	=891 mg/kg (Rattus)	> 2 g/kg (Rattus)	>900 mg/m ³ (Rattus) 1 h
Amines, polyethylenepoly-, triethylenetetramine fraction	LD50 (Rattus) 1716 mg/Kg (OECD 401)	LD50 (Oryctolagus cuniculus) 1465 mg/Kg (OECD 402)	-

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. Irritating to skin.

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

Respiratory or skin sensitisation May cause sensitisation by skin contact.

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.

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	European Union
Salicylic acid	Repr. 2

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

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure.

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

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties

11.2.2. Other information

Other adverse effects No information available.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea	M-Factor	M-Factor (long-term)
Fatty acids, C18-unsaturated, dimers, polymers with	-	LC50: =7.07mg/L (96h, Danio rerio)	-	-		

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tall-oil fatty acids and triethylenetetramine 68082-29-1						
Formaldehyde, polymer with benzenamine, hydrogenated 135108-88-2	-	LC50 (96h) =63 mg/L (Poecilia reticulata)Static (OECD 203)	-	EC50 (48h) =15.4 mg/L (Daphnia magna)Static (OECD 202)		
Benzyl alcohol 100-51-6	EC 50 (72h) = 700 mg/L (Pseudokirchnerella subcapitata) OECD 201	LC50 96 h = 460 mg/L (Pimephales promelas static)	EC50 = 50 mg/L 5 min EC50 = 63.7 mg/L 15 min EC50 = 63.7 mg/L 5 min EC50 = 71.4 mg/L 30 min	EC50 48 h = 230 mg/L (Daphnia magna)		
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	EC50 (72h) = 84 mg/L (Desmodesmus subspicatus) OECD 201	CL50 (96h) =175 mg/L (Cyprinus carpio)	-	-		
Salicylic acid 69-72-7	EC50 (72 h) > 100 mg/L (Scenedesmus subspicatus) OECD 201	LC50 (96)> 100 mg/L (Pimephales promelas)	-	EC50 48 h = 870 mg/L (Daphnia magna Static)		
Amines, polyethylenepoly-, triethylenetetramine fraction 90640-67-8	ErC 50 : 72 Hr (Selenastrum capricornutum) 20mg/l	LC50 (96h) = 330 mg/L (Pimephales promelas)	-	EC 50 48hr (daphnia magna) 31.3 mg/l		

12.2. Persistence and degradability

Persistence and degradability No information available.

Salicylic acid (69-72-7)

Method	Exposure time	Value	Results
OECD Test No. 301C: Ready Biodegradability: Modified MITI Test (I) (TG 301 C)	14 days	Biodegradation 88%	Readily biodegradable

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Formaldehyde, polymer with benzenamine, hydrogenated	2.68
Benzyl alcohol	1.05
2,4,6-tris(dimethylaminomethyl)phenol	0.219
Salicylic acid	2.25
Amines, polyethylenepoly-, triethylenetetramine fraction	-2.08

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. The product contains substance(s) classified as PBT or vPvB.

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Chemical name	PBT and vPvB assessment
Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine	The substance is not PBT / vPvB
Formaldehyde, polymer with benzenamine, hydrogenated	The substance is not PBT / vPvB
Benzyl alcohol	The substance is not PBT / vPvB
2,4,6-tris(dimethylaminomethyl)phenol	The substance is not PBT / vPvB
Salicylic acid	The substance is not PBT / vPvB
Amines, polyethylenepoly-, triethylenetetramine fraction	The substance is not PBT / vPvB

12.6. Endocrine disrupting properties

Endocrine disrupting properties No information available.

12.7. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products Dispose of waste in accordance with environmental legislation. Dispose of in accordance with local regulations.

Contaminated packaging Do not reuse empty containers.

Waste codes / waste designations according to EWC / AVV 15 01 10*: Packaging containing residues of or contaminated by dangerous substances. 16 03 03* inorganic wastes containing hazardous substances. 16 05 05 gases in pressure containers other than those mentioned in 16 05 04. Waste codes should be assigned by the user based on the application for which the product was used.

Other information Waste codes should be assigned by the user based on the application for which the product was used.

SECTION 14: Transport information

Note: The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments made in non-bulk packages (see regulatory definition). The information shown here, may not always agree with the bill of lading shipping description for the material.

Land transport (ADR/RID)

14.1 UN number or ID number UN3082
14.2 Proper Shipping Name Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine)
14.3 Transport hazard class(es) 9
Labels 9
14.4 Packing group III
Description UN3082, Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), 9, III, (-)
14.5 Environmental hazards Yes
14.6 Special Provisions 274, 335, 601, 375
Classification code M6
Tunnel restriction code (-)
Limited quantity (LQ) 5 L
ADR Hazard Id (Kemmler Number) 90

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IMDG

14.1 UN number or ID number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), 9, III, Marine Pollutant
14.5 Marine pollutant	P
14.6 Special Provisions	274, 335, 969
Limited Quantity (LQ)	5 L
EmS-No	F-A, S-F
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

Air transport (ICAO-TI / IATA-DGR)

14.1 UN number or ID number	UN3082
14.2 Proper Shipping Name	Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
Description	UN3082, Environmentally hazardous substances, liquid, n.o.s (Fatty acids, C18-unsaturated, dimers, polymers with tall-oil fatty acids and triethylenetetramine), 9, III
14.5 Environmental hazards	Yes
14.6 Special Provisions	A97, A158, A197
Limited quantity (LQ)	30 kg G
ERG Code	9L

Section 15: REGULATORY INFORMATION

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

European Union

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

Check whether measures in accordance with Directive 94/33/EC for the protection of young people at work must be taken.

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

SVHC: Substances of Very High Concern for Authorisation:

This product does not contain candidate substances of very high concern at a concentration $\geq 0.1\%$ (Regulation (EC) No. 1907/2006 (REACH), Article 59)

EU-REACH (1907/2006) - Annex XVII - Substances subject to Restriction

This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII).

Substance subject to authorisation per REACH Annex XIV

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

Dangerous substance category per Seveso Directive (2012/18/EU)

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

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Ozone-depleting substances (ODS) regulation (EC) 1005/2009
Not applicable

Persistent Organic Pollutants
Not applicable

National regulations

15.2. Chemical safety assessment

Chemical Safety Assessments have been carried out by the Reach registrants for substances registered at >10 tpa. No Chemical Safety Assessment has been carried out for this 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

H301 - Toxic if swallowed
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
H332 - Harmful if inhaled
H361d - Suspected of damaging the unborn child
H373 - May cause damage to organs through prolonged or repeated exposure
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

Legend

TWA	TWA (time-weighted average)
STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value
*	Skin designation
SVHC	Substance(s) of Very High Concern
PBT	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals
vPvB	Very Persistent and very Bioaccumulative (vPvB) Chemicals
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
EWC	European Waste Catalogue
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Dangerous Goods (IMDG)
IATA	International Air Transport Association (IATA)
RID	Regulations concerning the International Transport of Dangerous Goods by Rail

Key literature references and sources for data
No information available

Prepared By Product Safety & Regulatory Affairs

Revision date 18-Jul-2022

Indication of changes

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Revision note	SDS sections updated, 2, 3, 12, 13, 16.
Training Advice	When working with hazardous materials, regular training of operators is required by law
Further information	No information available

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

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