



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
This SDS is for generic information purposes and does not reflect required country specific information for OEL

BOSTIK HYTEC E736 TURBO - HARDENER
Supersedes Date: 06-May-2022

Revision date 06-May-2022
Revision Number 1

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

1.1. Product identifier

Product Name BOSTIK HYTEC E736 TURBO - HARDENER
Pure substance/mixture Mixture

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

Recommended use Hardener
Uses advised against Consumer use.

1.3. Details of the supplier of the safety data sheet

Company Name

Bostik SA
420 rue d'Estienne d'Orves
92700 Colombes
FRANCE
Tel: +33 (0)1 49 00 90 00

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

1.4. Emergency telephone number

Emergency Telephone 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Skin corrosion/irritation	Category 1 Sub-category B - (H314)
Serious eye damage/eye irritation	Category 1 - (H318)
Skin sensitisation	Category 1A - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

2.2. Label elements

Contains Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine, 3-aminomethyl-3,5,5-trimethylcyclohexylamine, Phenol, styrenated, 2,4,6-tris(dimethylaminomethyl)phenol, N,N-Dimethyl-1,3-propanediamine, 3-aminopropyltriethoxysilane, 1,3-Benzenedimethanamine



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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 - EU (§28, 1272/2008)

P260 - Do not breathe vapours/spray
P273 - Avoid release to the environment
P280 - Wear protective gloves/protective clothing and eye/face protection
P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P310 - Immediately call a POISON CENTER or doctor
P391 - Collect spillage
P501 - Dispose of contents/ container to an approved waste disposal plant

Additional information

This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

2.3. Other hazards

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.	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine 10 - <20 %	606-078-8	186321-96-0	Eye Dam. 1 (H318) Skin Irrit. 2 (H315) Skin Sens. 1 (H317) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)	-	1	1	01-2119983521-35-xxxx
Benzyl alcohol 1 - <5 %	202-859-9	100-51-6	Acute Tox. 4 (H302) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)	-	-	-	01-2119492630-38-XXXX
Phenol, styrenated 1 - <5 %	262-975-0	61788-44-1	Skin Irrit. 2 (H315) Skin Sens. 1A (H317) Aquatic Chronic 2 (H411)	-	-	-	01-2119980970-27-XXXX
3-aminomethyl-3,5,5-trimethylcyclohexylamine 1 - <5 %	220-666-8	2855-13-2	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1A (H317)	Skin Sens. 1A :: C>=0.001%	-	-	01-2119514687-32-XXXX

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			Aquatic Chronic 3 (H412)				
2,4,6-tris(dimethylamino methyl)phenol 1 - <3 %	202-013-9	90-72-2	Acute Tox. 4 (H302) Skin Corr. 1C (H314) Eye Dam. 1 (H318)	-	-	-	01-2119560597-27-XXXX
2,4,6-Tri(dimethylamino methyl)phenol 1 - <2.5 %	202-013-9	90-72-2	Skin Corr. 1C (H314) Skin Sens. 1B (H317) Eye Dam. 1 (H318)	-	-	-	01-2119560597-27-XXXX
1,3-Benzenedimethanamine 1 - <2.5 %	216-032-5	1477-55-0	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1B (H317) Acute Tox. 4 (H302) Acute Tox. 4 (H332) Aquatic Chronic 3 (H412) (EUH071)	-	-	-	01-2119480150-50-XXXX
3-aminopropyltriethoxysilane 0.1- <1 %	213-048-4	919-30-2	Skin Corr. 1B (H314) Eye Dam. 1 (H318) Skin Sens. 1 (H317) Acute Tox. 4 (H302)	-	-	-	01-2119480479-24-XXXX
N,N-Dimethyl-1,3-propanediamine 0.1- <1 %	203-680-9	109-55-7	Acute Tox. 4 (H302) Skin Corr. 1B (H314) Skin Sens. 1 (H317) Flam. Liq. 3 (H226)	-	-	-	01-2119486842-27-XXXX

Air contaminants formed when using the substance or mixture as intended

Chemical name	EC No	CAS No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)	REACH registration number
Ethanol 64-17-5	200-578-6	64-17-5	Flam. Liq. 2 (H225) Eye Irrit. 2 (H319)	-	-	-	01-2119457610-43-XXXX

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

Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE_{mix}) for classifying a mixture based on its components

Chemical name	EC No	CAS No	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	606-078-8	186321-96-0	-	-	-	-	-
Benzyl alcohol	202-859-9	100-51-6	1620	-	4.2	-	-
Phenol, styrenated	262-975-0	61788-44-1	-	-	-	-	-
3-aminomethyl-3,5,5-trimethylcyclohexylamine	220-666-8	2855-13-2	1030+	-	-	-	-
2,4,6-tris(dimethylamino methyl)phenol	202-013-9	90-72-2	1999	-	-	-	-

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Chemical name	EC No	CAS No	Oral LD50 mg/kg	Dermal LD50 mg/kg	Inhalation LC50 - 4 hour - dust/mist - mg/L	Inhalation LC50 - 4 hour - vapour - mg/L	Inhalation LC50 - 4 hour - gas - ppm
2,4,6-Tri(dimethylamino methyl)phenol	202-013-9	90-72-2	-	1280	-	-	-
1,3-Benzenedimethana mine	216-032-5	1477-55-0	930	-	1.34	-	-
3-aminopropyltriethoxy silane	213-048-4	919-30-2	1490	-	-	-	-
N,N-Dimethyl-1,3-prop anediamine	203-680-9	109-55-7	922	490.8	-	-	-

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	Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.
Inhalation	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary edema may occur. Get immediate medical advice/attention.
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 advice/attention.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. May cause an allergic skin reaction.
Ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get immediate medical advice/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. Wear personal protective clothing (see section 8).

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

Symptoms Burning sensation. Itching. Rashes. Hives.

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

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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 The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Product is or contains a sensitizer. May cause sensitisation by skin contact.

Hazardous combustion products Carbon oxides. Carbon monoxide. Carbon dioxide (CO₂). Ammonia. 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 Attention! Corrosive material. 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. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

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

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. In case of insufficient ventilation, wear suitable respiratory equipment. Handle product only in closed system or provide appropriate exhaust ventilation. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse. This product is part of a kit. Please also refer to the SDS for the other component(s) of the kit.

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General hygiene considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

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

7.3. Specific end use(s)

Specific use(s)
Hardener.

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

Only European Community Occupational Exposure Limits will be shown in this document. Please refer to regional SDS for further information.

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	

Phenol, styrenated (61788-44-1)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	2.1 mg/kg bw/d	
worker	Inhalation	7.4 mg/m ³	

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Inhalation	0.073 mg/m ³	

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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	

1,3-Benzenedimethanamine (1477-55-0)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker	Dermal	0.33 mg/kg bw/d	
worker	Inhalation	1.2 mg/m ³	

3-aminopropyltriethoxysilane (919-30-2)			
Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
worker Long term Systemic health effects	Inhalation	59 mg/m ³	
worker Short term Systemic health effects	Inhalation	59 mg/m ³	
worker Long term Systemic health effects	Dermal	8.3 mg/kg bw/d	
worker Short term Systemic health effects	Dermal	8.3 mg/kg bw/d	

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	Oral	20 mg/kg bw/d	

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

3-aminopropyltriethoxysilane (919-30-2)

Type	Exposure route	Derived No Effect Level (DNEL)	Safety factor
Consumer Long term Systemic health effects	Inhalation	17 mg/m ³	
Consumer Short term Systemic health effects	Inhalation	17.4 mg/m ³	
Consumer Long term Systemic health effects	Dermal	5 mg/kg bw/d	
Consumer Short term Systemic health effects	Dermal	5 mg/kg bw/d	

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

Phenol, styrenated (61788-44-1)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.001 mg/l

3-aminomethyl-3,5,5-trimethylcyclohexylamine (2855-13-2)

Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.094 mg/l
Marine water	0.0094 mg/l

2,4,6-tris(dimethylaminomethyl)phenol (90-72-2)

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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

1,3-Benzenedimethanamine (1477-55-0)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.094 mg/l
Marine water	0.0094 mg/l

3-aminopropyltriethoxysilane (919-30-2)	
Environmental compartment	Predicted No Effect Concentration (PNEC)
Freshwater	0.33 mg/l
Marine water	0.033 mg/l

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

Physical state	Liquid
Appearance	Viscous
Colour	Black
Odour	Ammonia.
Odour threshold	No information available

Property	Values	Remarks • Method
Melting point / freezing point	No data available	None known
Initial boiling point and boiling range	No data available	None known
Flammability	Not applicable for liquids .	None known
Flammability Limit in Air		None known
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Flash point	100 °C	None known
Autoignition temperature	No data available	None known
Decomposition temperature		None known
pH	No data available	None known

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pH (as aqueous solution)	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	6000 9000 mPa s	Spindle A4 @ 30 rpm @ 23 °C
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Vapour pressure	No data available	None known
Relative density	No data available	None known
Bulk Density	No data available	
Density	1.61	
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

VOC Content (%)

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.

10.2. Chemical stability

Stability Stable under normal 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 Exposure to air or moisture over prolonged periods.

10.5. Incompatible materials

Incompatible materials Acids. Bases. Oxidising agent.

10.6. Hazardous decomposition products

Hazardous decomposition products None under normal use conditions. Stable under recommended storage conditions.

SECTION 11: Toxicological information

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

Information on likely routes of exposure

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Product Information

Inhalation	Specific test data for the substance or mixture is not available. Corrosive by inhalation. (based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye damage. (based on components). Corrosive to the eyes and may cause severe damage including blindness. May cause irreversible damage to eyes.
Skin contact	Specific test data for the substance or mixture is not available. Corrosive. (based on components). Causes burns. May cause sensitisation by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Specific test data for the substance or mixture is not available. Causes burns. (based on components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways.

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)	5,258.00 mg/kg
ATEmix (dermal)	29,252.40 mg/kg
ATEmix (inhalation-dust/mist)	20.80 mg/l

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	LD50 > 2000 mg/kg	LD50 > 2000 mg/kg	-
Benzyl alcohol	LD50 = 1620 mg/kg (Rattus)	> 2 g/kg (Oryctolagus cuniculus)	>4.17 mg/L (Rattus) 4 h
Phenol, styrenated	LD50 > 2000 mg/kg (Rattus) OECD 423	LD50 > 2000 mg/kg (Rattus) OECD 402	>2.5 mg/L (Rattus) 6 h
3-aminomethyl-3,5,5-trimethylcyclohexylamine	=1040 mg/kg (Rattus)	LD50 > 2000 mg/kg (Rattus) OECD 402	> 5.01 mg/L (Rat) 4 h 1.07 - 5.01 mg/L (Rat) 4 h
2,4,6-tris(dimethylaminomethyl)phenol	LD50 > 1 916 - < 2 455 mg/kg (Rattus)	> 1 ml/kg (Rat)	-
2,4,6-Tri(dimethylaminomethyl)phenol	LD50 = 2169 mg/kg (Rattus) OECD 401	= 1280 mg/kg (Rattus)	-
1,3-Benzenedimethanamine	=930 mg/kg (Rattus)	> 2 g/kg (Oryctolagus cuniculus)	LC50 (4h) = 1.34 mg/L (Rattus) OECD 403
3-aminopropyltriethoxysilane	LD50 = 1490 mg/kg (Rat, female) EPA OTS 798.1175 LD50 = 2690 mg/kg (Rat,	LD50 = 4076 mg/kg (Oryctolagus cuniculus) EPA OTS 798.1100	LC50 >144 mg/L (6h) Rat (Vapour)

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	male) EPA OTS 798.1175		
N,N-Dimethyl-1,3-propanediamine	=922 mg/kg (Rattus)	= 600 µl/kg (Oryctolagus cuniculus)	>4.31 mg/L (Rattus) 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 burns.

Serious eye damage/eye irritation Classification based on data available for ingredients. Risk of serious damage to eyes. Causes burns.

Respiratory or skin sensitisation May cause sensitisation by skin contact.

1,3-Benzenedimethanamine (1477-55-0)

Method	Species	Exposure route	Results
OECD Test No. 429: Skin Sensitisation: Local Lymph Node Assay	Mouse	Dermal	Sensitizing

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.

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Endocrine disrupting properties No information available.

11.2.2. Other information

Other adverse effects No information available.

Note: PC-ADH-8 Multi-component adhesives and sealants This product is part of a kit Please also refer to the SDS for the other component(s) of the kit

SECTION 12: Ecological information

12.1. Toxicity

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

Chemical name	Algae/aquatic	Fish	Toxicity to	Crustacea	M-Factor	M-Factor
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	plants		microorganisms			(long-term)
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine 186321-96-0	EC50 (72h) = 0.77 mg/L (Pseudokirchneriella subcapitata) OECD Guideline 201	LC50: =1.806mg/L (96h, Oncorhynchus mykiss)	-	EC50 (48h) = 0.705 mg/L (Daphnia magna) OECD 202	1	1
Benzyl alcohol 100-51-6	EC 50 (72h) = 700 mg/L (Pseudokirchneriella 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)		
Phenol, styrenated 61788-44-1	EL50 (72h) = 3.14 mg/L (Desmodesmus subspicatus) OECD 201	LL50 (96h) = 14.8 mg/L (Danio rerio) OECD 203	-	EL50 (48h) = 17 mg/L (Daphnia magna) OECD 202		
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC50: =37mg/L (72h, Desmodesmus subspicatus)	LC50: =110mg/L (96h, Leuciscus idus)	-	EC50: =42mg/L (24h, Daphnia magna) EC50: 14.6 - 21.5mg/L (48h, Daphnia magna)		
2,4,6-tris(dimethylaminoethyl)phenol 90-72-2	EC50 (72h) = 84 mg/L (Desmodesmus subspicatus) OECD 201	CL50 (96h) =175 mg/L (Cyprinus carpio)	-	-		
1,3-Benzenedimethanamine 1477-55-0	EC50 (72h) = 20.3 mg/L (Pseudokirchneriella subcapitata) OECD 201	LC50 (96h) =87.6 mg/L (Oryzias latipes) Semi-static (OECD 203)	-	EC50 (48h) =15.2 mg/L (Daphnia magna) Static (OECD 202)		
3-aminopropyltriethoxysilane 919-30-2	EC50 (72h) >1000 mg/L Green algae (desmodesmus subspicatus) (OECD TG 201)	LC50 (96h) >934 mg/L (Brachydanio rerio) (OECD TG 203)	-	EC50 (48h) =331 mg/L Daphnia magna (OECD TG 202)		
N,N-Dimethyl-1,3-propanediamine 109-55-7	EC50: =57.5mg/L (96h, Desmodesmus subspicatus) EC50: =56.2mg/L (72h, Desmodesmus subspicatus)	LC50: =122mg/L (96h, Leuciscus idus)	EC50 = 95 mg/L 17 h	EC50: =59.5mg/L (48h, Daphnia magna)		

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
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Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	3.38
Benzyl alcohol	1.05
Phenol, styrenated	3.13
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2.33
2,4,6-tris(dimethylaminomethyl)phenol	0.219
1,3-Benzenedimethanamine	0.18
3-aminopropyltriethoxysilane	1.7
N,N-Dimethyl-1,3-propanediamine	-0.352

12.4. Mobility in soil

Mobility in soil No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

Chemical name	PBT and vPvB assessment
Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine	The substance is not PBT / vPvB
Benzyl alcohol	The substance is not PBT / vPvB
Phenol, styrenated	The substance is not PBT / vPvB
3-aminomethyl-3,5,5-trimethylcyclohexylamine	The substance is not PBT / vPvB
2,4,6-tris(dimethylaminomethyl)phenol	The substance is not PBT / vPvB
2,4,6-Tri(dimethylaminomethyl)phenol	The substance is not PBT / vPvB
1,3-Benzenedimethanamine	The substance is not PBT / vPvB
3-aminopropyltriethoxysilane	The substance is not PBT / vPvB
N,N-Dimethyl-1,3-propanediamine	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 in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging Do not reuse empty containers.

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

SECTION 14: Transport information

Land transport (ADR/RID)

14.1 UN number or ID number UN2735

14.2 Proper Shipping Name Amines, liquid, corrosive, n.o.s (3-aminomethyl-3,5,5-trimethylcyclohexylamine, N,N-Dimethyl-1,3-propanediamine)

14.3 Transport hazard class(es) 8
Labels 8

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14.4 Packing group	II
Description	UN2735, Amines, liquid, corrosive, n.o.s (3-aminomethyl-3,5,5-trimethylcyclohexylamine, N,N-Dimethyl-1,3-propanediamine), 8, II, (E), Environmentally Hazardous
14.5 Environmental hazards	Yes
14.6 Special Provisions	274
Classification code	C7
Tunnel restriction code	(E)
Limited quantity (LQ)	1 L
ADR Hazard Id (Kemmler Number)	80

IMDG

14.1 UN number or ID number	UN2735
14.2 Proper Shipping Name	Amines, liquid, corrosive, n.o.s (3-aminomethyl-3,5,5-trimethylcyclohexylamine, N,N-Dimethyl-1,3-propanediamine)
14.3 Transport hazard class(es)	8
14.4 Packing group	II
Description	UN2735, Amines, liquid, corrosive, n.o.s (3-aminomethyl-3,5,5-trimethylcyclohexylamine, N,N-Dimethyl-1,3-propanediamine, Fatty acids, tall-oil, reaction products with bisphenol A, epichlorohydrin, glycidyl tolyl ether and triethylenetetramine), 8, II, Marine Pollutant
14.5 Marine pollutant	P
14.6 Special Provisions	274
Limited Quantity (LQ)	1 L
EmS-No	F-A, S-B
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	UN2735
14.2 Proper Shipping Name	Amines, liquid, corrosive, n.o.s (3-aminomethyl-3,5,5-trimethylcyclohexylamine, N,N-Dimethyl-1,3-propanediamine)
14.3 Transport hazard class(es)	8
14.4 Packing group	II
Description	UN2735, Amines, liquid, corrosive, n.o.s (3-aminomethyl-3,5,5-trimethylcyclohexylamine, N,N-Dimethyl-1,3-propanediamine), 8, II
14.5 Environmental hazards	Yes
14.6 Special Provisions	A3, A803
Limited quantity (LQ)	0.5 L
ERG Code	8L

Section 15: REGULATORY INFORMATION

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

European Union

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

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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

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

Persistent Organic Pollutants
Not applicable

National regulations

France

Occupational Illnesses (R-463-3, France)

Chemical name	French RG number
Benzyl alcohol 100-51-6	RG 84
3-aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	RG 49, RG 49bis, RG 66

Germany

Ordinance on Industrial Safety and Health - Germany - BetrSichV
No flammable liquids in accordance with BetrSichV

Water hazard class (WGK) obviously hazardous to water (WGK 2)

Netherlands

List of Carcinogenic, mutagenic and reproductive toxin substances in accordance with Inspectorate SZW (Netherlands)
Not Listed

Denmark

Registration number(s) (P-no.) No information available

Norway

Registration number(s) (PRN-no.) No information available

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

EUH071 - Corrosive to the respiratory tract
H226 - Flammable liquid and vapour
H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage
H315 - Causes skin irritation

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H317 - May cause an allergic skin reaction
H318 - Causes serious eye damage
H319 - Causes serious eye irritation
H332 - Harmful if inhaled
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects
H411 - Toxic to aquatic life with long lasting effects
H412 - Harmful to aquatic life with long lasting effects

SVHC: Substances of Very High Concern for Authorisation:
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
LOW: List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IATA: International Air Transport Association
ICAO: ICAO-TI: Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG: International Maritime Dangerous Goods
RID: Regulations concerning the International Carriage of Dangerous Goods by Rail

Legend SECTION 8: Exposure controls/personal protection

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
AGW	Occupational exposure limit value	BGW	Biological limit value
Ceiling	Maximum limit value	*	Skin designation

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

European Food Safety Authority (EFSA)
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC)
European Chemicals Agency (ECHA) (ECHA_API)
EPA (Environmental Protection Agency)
Acute Exposure Guideline Level(s) (AEGl(s))
International Uniform Chemical Information Database (IUCLID)
National Institute of Technology and Evaluation (NITE)
NIOSH (National Institute for Occupational Safety and Health)
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

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Revision date	06-May-2022
Training Advice	No information available
Further information	No information available

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

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End of Safety Data Sheet