

SAFETY DATA SHEET

according to Regulation (EU) 2015/830

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Toughseal Hardener

Revision n Revision date 2018-06-27

SECTION 1: Identification of the substance/mixture and	of the company/undertaking
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1.1. Product identifier

Product name	Toughseal Hardener
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1.3. Details of the supplier of the safety data sheet

Clydebridge Chemicals Limited Company

Address Arc House

> Terrace Road South Binfield, Bracknell Berkshire RG42 4PZ

Web http://www.clydebridge.co.uk

Telephone +44 (0)1189 862816

Email enquiries@clydebridge.co.uk Email address of the sds@clydebridge.co.uk

competent person

1.4. Emergency telephone number

Emergency telephone

number

Company

+44 (0)1270 502891

NCEC

24 hours

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

2.1.2. Classification - EC	Acute Tox. 4: H302; Acute Tox. 4: H312; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic
1272/2008	Chronic 3: H412;

2.2. Label elements

Hazard pictograms		
Signal Word	Danger	
Hazard Statement	Acute Tox. 4: H302 - Harm	

nful if swallowed.

Acute Tox. 4: H312 - Harmful in contact with skin.

Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.

Skin Sens. 1: H317 - May cause an allergic skin reaction.

Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.

Precautionary Statement:

Prevention

P260 - Do not breathe dust/fume/gas/mist/vapours/spray.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash thoroughly after handling.

P270 - Do no eat, drink or smoke when using this product.

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

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2.2. Label elements

	P273 - Avoid release to the environment.			
	P280 - Wear protective gloves/protective clothing/eye protection/face protection.			
Precautionary Statement:	P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor/ /if you feel unwell.			
Response	P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.			
	P302+P352 - IF ON SKIN: Wash with plenty of water/ .			
	P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse			
	skin with water/shower.			
	P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.			
	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/doctor/			
	P312 - Call a POISON CENTER/doctor/ /if you feel unwell.			
	P321 - Specific treatment (see on this label).			
	P330 - Rinse mouth.			
	P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.			
	P363 - Wash contaminated clothing before reuse.			
Precautionary Statement:	P405 - Store locked up.			
Storage				
Precautionary Statement:	P501 - Dispose of contents/container to licensed waste disposal site			
Disposal				

2.3. Other hazards

Other hazards None known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
3-Aminomethyl-3,5,5-trimethylcyclo hexylamine	612-067-00-9	2855-13-2	220-666-8	01-2119514687-32	50 - 60%	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412;
Benzyl alcohol	603-057-00-5	100-51-6	202-859-9	01-2119492630-38	30 - 40%	Acute Tox. 4: H332; Acute Tox. 4: H302;

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If you feel unwell, seek medical advice (show the label where possible).
Eye contact	Rinse immediately with plenty of water for 15 minutes. Seek medical attention if irritation or symptoms persist.
Skin contact	Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Ingestion	DO NOT INDUCE VOMITING. If swallowed, seek medical advice immediately and show this container or label.

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

Inhalation	Inhalation of vapour may cause shortness of breath.
Eye contact	May cause irritation to eyes.
Skin contact	May cause sensitisation by skin contact. Irritating to skin.
Ingestion	Ingestion causes burns to the respiratory tract. Irritating to mouth, throat and stomach.

SECTION 5: Firefighting measures

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5.1. Extinguishing media	
	Use foam, carbon dioxide, dry powder, sand or earth.
5.2. Special hazards arising fron	n the substance or mixture
	Burning produces irritating, toxic and obnoxious fumes.
5.3. Advice for firefighters	
	The product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions. Wear suitable respiratory equipment when necessary.
SECTION 6: Accidental relea	ase measures
6.1. Personal precautions, prote	ctive equipment and emergency procedures
	Ensure adequate ventilation of the working area. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection. Take off immediately all contaminated clothing.
6.2. Environmental precautions	
	Do not allow product to enter drains. Prevent further spillage if safe.
6.3. Methods and material for co	ontainment and cleaning up
	Absorb with inert, absorbent material. Transfer to suitable, labelled containers for disposal. Clean spillage area thoroughly with plenty of water.
6.4. Reference to other sections	
	SECTION 13: Disposal considerations. SECTION 14: Transport information. SECTION 8: Exposure controls/personal protection.
SECTION 7: Handling and s	torage
7.1. Precautions for safe handlin	ng
	Avoid contact with eyes and skin. Ensure adequate ventilation of the working area. Wear suitable protective clothing, gloves and eye/face protection. When using do not eat, drink or smoke.
7.2. Conditions for safe storage,	including any incompatibilities
	Keep in a cool, dry, well ventilated area. Keep containers tightly closed.
SECTION 8: Exposure contr	ols/personal protection
8.1. Control parameters	
DNEL: Derived no-effect level.	
Exposure Pattern - Workers	
Benzyl alcohol	Acute dermal - Local effects 47 mg/kg
	Long-term - dermal - Systemic 9.5 mg/kg effects
Exposure Pattern - General pop	ulation
Benzyl alcohol	Acute oral - Systemic effects 25 mg/kg
	Long-term - oral - Systemic 5 mg/kg effects
8.2. Exposure controls	

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8.2. Exposure controls







8.2.1. Appropriate engineering controls Ensure adequate ventilation of the working area.

8.2.2. Individual protection measures

Wear suitable protective clothing.

Eye / face protection

Safety glasses.

Skin protection -Handprotection

Chemical resistant gloves (PVC).

Respiratory protection

Not normally required. In case of insufficient ventilation, wear suitable respiratory equipment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Liquid

Colour

Amber

Odour

Ammoniacal

Freezing Point

Not determined

Initial boiling point > 190 °C

Flash point > 90 °C

Relative density

1.07 (H2O = 1 @ 20 °C)

Autoignition temperature

Not determined

Explosive properties

Not determined

Oxidising properties

Not determined

Solubility

Slightly soluble in water

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Alkali metals. Strong acids. Strong exothermic reaction in contact with acids. Strong oxidising agents.

10.4. Conditions to avoid

Keep away from incompatible materials.

10.5. Incompatible materials

Strong acids. Oxidising agents.

10.6. Hazardous decomposition products

Burning produces obnoxious and irritating fumes

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Skin corrosion/irritation	CAUSES SEVERE SKIN BURNS.
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Serious eye damage/irritation Strong irritant with the danger of severe eye damage.

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11.1. Information	on	toxicological	effects
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Respiratory or skin sensitisation	May cause sensitisation by skin contact.
Germ cell mutagenicity	No mutagenic effects reported.
Carcinogenicity	No carcinogenic effects reported.
Reproductive toxicity	Possible risk of harm to the unborn child. Possible risk of impaired fertility.

11.1.4. Toxicological Information

3-Aminomethyl-3,5,5-trimethylcy	Oral Rat LD50: 1030 mg/kg	
clohexylamine		
Benzyl alcohol	Dermal Rat LD50: 2000 mg / kg	Oral Rat LD50: 1620 mg/kg
	Inhalation Rat LC50/4 h: >4178 mg/m3	

SECTION 12: Ecological information

12.1. Toxicity

3-Aminomethyl-3,5,5-trimethylcy clohexylamine	Daphnia EC50/48h: 23.0000 mg/l	Algae IC50/72h: 50 mg/l
	Fish LC50/96h: 110.0000 mg/l	
Benzyl alcohol	Daphnia EC50/48h: 230.0000 mg/l	Algae IC50/72h: 700.0000 mg/l
	Fish LC50/96h: 460 mg/l	

12.2. Persistence and degradability

No data is available on this product.

12.4. Mobility in soil

No data is available on this product.

12.5. Results of PBT and vPvB assessment

This substance does not meet the criteria for classification as PBT or vPvB.

12.6. Other adverse effects

May cause long-term adverse effects in the aquatic environment.

Further information

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

General information

Dispose of in compliance with all local and national regulations.

Disposal methods

Dispose of this material and its container to hazardous or special waste collection point.

Disposal of packaging

After final product withdrawal, all residues must be removed from containers (drip-free, powder-free or paste-free).

SECTION 14: Transport information

Hazard pictograms



14.1. UN number

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14.1. UN number	
	UN2735
14.2. UN proper shipping name	
	AMINES, LIQUID, CORROSIVE N.O.S.
14.3. Transport hazard class(es	
ADR/RID	8
Subsidiary risk	1 -
IMDG	8
Subsidiary risk	-
IATA	8
Subsidiary risk	-
14.4. Packing group	
Packing group	П
14.5. Environmental hazards	
Environmental hazards	No
Marine pollutant	No
ADR/RID	
Hazard ID	80
Tunnel Category	(E)
IMDG	
EmS Code	F-A S-B
IATA	
Packing Instruction (Cargo)	855
Maximum quantity	30 L
Packing Instruction	851
(Passenger)	
Maximum quantity	1L
SECTION 15: Regulatory in	formation
15.1. Safety, health and enviror	nmental regulations/legislation specific for the substance or mixture
Regulations	This Safety Data Sheet has been prepared in accordance with Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Classification has been made in accordance with Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation).
15.2. Chemical safety assessm	ent
	Not required.
SECTION 16: Other informa	
Other information	AUOTI

Data sources	Data extracted from individual component Safety Data Sheets.
Text of Hazard Statements in	Acute Tox. 4: H302 - Harmful if swallowed.
Section 3	Acute Tox. 4: H312 - Harmful in contact with skin.
	Skin Corr. 1B: H314 - Causes severe skin burns and eye damage.
	Skin Sens. 1: H317 - May cause an allergic skin reaction.
	Aquatic Chronic 3: H412 - Harmful to aquatic life with long lasting effects.
	Acute Tox. 4: H332 - Harmful if inhaled.

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Further information	
	The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. This information is correct to the best of our knowledge and
	belief at the date of publication however no guarantee is made to its accuracy. This 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 other process.