

**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 1

Compilation date: 15/12/2015

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Revision No: 5

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1. Product identifier**

**Product name:** POLYCRAFT CLEARTOP 5 HARDENER

**Product code:** QL3006

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

**Use of substance / mixture:** PC1: Adhesives, sealants. PC9a: Coatings and paints, thinners, paint removers. PC9b: Fillers, putties, plasters, modelling clay. PC32: Polymer preparations and compounds. PROC1: Use in closed process, no likelihood of exposure PROC2: Use in closed, continuous process with occasional controlled exposure PROC3: Use in closed batch process (synthesis or formulation) PROC4: Use in batch and other process (synthesis) where opportunity for exposure arises PROC5: Mixing or blending in batch processes for formulation of preparations\* and articles (multistage and/or significant contact) PROC8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities PROC8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities PROC9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing) PROC10: Roller application or brushing PROC13: Treatment of articles by dipping and pouring PROC19: Hand-mixing with intimate contact and only PPE available ERC2: Formulation of preparations\* ERC3: Formulation in materials ERC5: Industrial use resulting in inclusion into or onto a matrix ERC6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers

**1.3. Details of the supplier of the safety data sheet**

**Company name:** MB Fibreglass  
Unit 17 & 20 Abbey Business Park  
Mill Road, Newtownabbey  
Co. Antrim  
BT36 7EE

**Tel:** 02890 861992

**Email:** sales@mbfg.co.uk

**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 2

**1.4. Emergency telephone number**

**Emergency tel:** 02890 861992  
(office hours only)

**Section 2: Hazards identification**

**2.1. Classification of the substance or mixture**

**Classification under CLP:** Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412; Skin Corr. 1A: H314; Skin Sens. 1: H317; Eye Dam. 1: H318

**Most important adverse effects:** Harmful if swallowed or in contact with skin Causes severe skin burns and eye damage.  
May cause an allergic skin reaction. Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

**Label elements:**

**Hazard statements:** H302+H312: Harmful if swallowed or in contact with skin  
H314: Causes severe skin burns and eye damage.  
H317: May cause an allergic skin reaction.  
H412: Harmful to aquatic life with long lasting effects.

**Hazard pictograms:** GHS05: Corrosion  
GHS07: Exclamation mark



**Signal words:** Danger

**Precautionary statements:** P260: Do not breathe dust/fumes/gas/mist/vapours/spray.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.  
P301+P312: IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.  
P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
P302+P352: IF ON SKIN: Wash with plenty of water.  
P362+P364: Take off contaminated clothing and wash it before reuse.

**2.3. Other hazards**

**PBT:** This product is not identified as a PBT/vPvB substance.

**Section 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous ingredients:**

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# SAFETY DATA SHEET

## POLYCRAFT CLEARTOP 5 HARDENER

Page: 3

BENZYL ALCOHOL - REACH registered number(s): 01-2119492630-38

EINECS	CAS	PBT / WEL	CLP Classification	Percent
202-859-9	100-51-6	-	Acute Tox. 4: H332; Acute Tox. 4: H302	25-50%

CYCLOHEXANEMETHANAMINE, 5-AMINO-1,3,3-TRIMETHYL-, REACTION PRODUCTS WITH BISPHENOL A DIGLYCIDYL ETHER HOMOPOLYMER

-	68609-08-5	-	Skin Corr. 1B: H314; Eye Dam. 1: H318	1-25%
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3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE - REACH registered number(s): 01-2119514687-32

220-666-8	2855-13-2	-	Acute Tox. 4: H312; Acute Tox. 4: H302; Skin Corr. 1B: H314; Skin Sens. 1: H317; Aquatic Chronic 3: H412	1-25%
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1,3-CYCLOHEXANEDIMETHANAMINE - REACH registered number(s): 01-2119543741-41

219-941-5	2579-20-6	-	Skin Corr. 1A: H314; Eye Dam. 1: H318; Acute Tox. 4: H302; Acute Tox. 4: H312; Aquatic Chronic 3: H412	1-25%
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1,3-BIS(AMINOMETHYL) CYCLOHEXANE REACTION PRODUCTS

-	2413166-88-6	-	Skin Corr. 1C: H314; Eye Dam. 1: H318; Acute Tox. 4: H302+H312; Aquatic Chronic 3: H412	1-25%
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N'-(3-AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3,-DIAMINE - REACH registered number(s): 01-2119970376-29

234-148-4	10563-29-8	-	Acute Tox. 4: H302; Skin Corr. 1A: H314; Eye Dam. 1: H318; Skin Sens. 1B: H317	1-25%
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## Section 4: First aid measures

### 4.1. Description of first aid measures

**Skin contact:** Remove all contaminated clothes and footwear immediately unless stuck to skin.

Drench the affected skin with running water for 10 minutes or longer if substance is still on skin. Transfer to hospital if there are burns or symptoms of poisoning.

**Eye contact:** Bathe the eye with running water for 15 minutes. Transfer to hospital for specialist examination.

**Ingestion:** Wash out mouth with water. Do not induce vomiting. Give 1 cup of water to drink every 10 minutes. If unconscious, check for breathing and apply artificial respiration if necessary. If unconscious and breathing is OK, place in the recovery position. Transfer to hospital as soon as possible.

**Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If unconscious and breathing is OK, place in the recovery position. If conscious, ensure the casualty sits or lies down. If breathing becomes bubbly, have the casualty sit and provide oxygen if available. Transfer to hospital as soon as possible.

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**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 4

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

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

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

**Immediate / special treatment:** Eye bathing equipment should be available on the premises.

**Section 5: Fire-fighting measures**

**5.1. Extinguishing media**

**Extinguishing media:** Suitable extinguishing media for the surrounding fire should be used. Use water spray to cool containers.

**5.2. Special hazards arising from the substance or mixture**

**Exposure hazards:** Corrosive. In combustion emits toxic fumes.

**5.3. Advice for fire-fighters**

**Advice for fire-fighters:** Wear self-contained breathing apparatus. Wear protective clothing to prevent contact with skin and eyes.

**Section 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

**Personal precautions:** Notify the police and fire brigade immediately. If outside keep bystanders upwind and away from danger point. Mark out the contaminated area with signs and prevent access to unauthorised personnel. Do not attempt to take action without suitable protective clothing - see section 8 of SDS. Turn leaking containers leak-side up to prevent the escape of liquid.

**6.2. Environmental precautions**

**Environmental precautions:** Do not discharge into drains or rivers. Contain the spillage using bunding.

**6.3. Methods and material for containment and cleaning up**

**Clean-up procedures:** Clean-up should be dealt with only by qualified personnel familiar with the specific substance. Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

**6.4. Reference to other sections**

**Reference to other sections:** Refer to section 8 of SDS.

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**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 5

**Section 7: Handling and storage**

**7.1. Precautions for safe handling**

**Handling requirements:** Avoid direct contact with the substance. Ensure there is sufficient ventilation of the area.  
Do not handle in a confined space. Avoid the formation or spread of mists in the air.

**7.2. Conditions for safe storage, including any incompatibilities**

**Storage conditions:** Store in a cool, well ventilated area. Keep container tightly closed.  
**Suitable packaging:** Must only be kept in original packaging.

**7.3. Specific end use(s)**

**Specific end use(s):** No data available.

**Section 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Workplace exposure limits:** No data available.

**DNEL/PNEC Values**

**Hazardous ingredients:**

**BENZYL ALCOHOL**

Type	Exposure	Value	Population	Effect
DNEL	Dermal	9.5 mg/kg bw/day	Workers	Systemic
DNEL	Inhalation	90 mg/m3	Workers	Systemic
DNEL	Dermal	5.7 mg/kg bw/day	Consumers	Systemic
DNEL	Inhalation	8.11 mg/m3	Consumers	Systemic
DNEL	Oral	5 mg/kg bw/day	Consumers	Systemic
PNEC	Fresh water	1 mg/l	-	-
PNEC	Marine water	0.1 mg/l	-	-
PNEC	Microorganisms in sewage treatment	39 mg/l	-	-
PNEC	Fresh water sediments	5.27 mg/kg	-	-
PNEC	Soil (agricultural)	0.456 mg/kg	-	-
PNEC	Fresh water sediments	0.456 mg/kg	-	-
PNEC	Marine sediments	0.527 mg/kg	-	-
PNEC	Marine water	0.1 mg/l	-	-
PNEC	Fresh water	1 mg/l	-	-
DNEL	Oral	25 mg/kg	Consumers	Systemic
DNEL	Oral (repeated dose)	5 mg/kg	Consumers	Systemic
DNEL	Dermal	47 mg/kg	Workers	Systemic

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**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 6

DNEL	Dermal (repeated dose)	9.5 mg/kg	Workers	Systemic
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**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	0.073 mg/m <sup>3</sup>	Workers	-
PNEC	Fresh water	0.06 mg/l	-	-
PNEC	Marine water	0.006 mg/l	-	-
PNEC	Fresh water sediments	5.784 mg/kg	-	-
PNEC	Marine sediments	0.578 mg/kg1.121 mg/	-	-

**1,3-CYCLOHEXANEDIMETHANAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Inhalation	0.00947 mg/m <sup>3</sup>	Workers	-

**N'-(3-AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3,-DIAMINE**

Type	Exposure	Value	Population	Effect
DNEL	Dermal	0.67 mg/kg bw/d	Workers	-
DNEL	Inhalation	3.7 mg/m <sup>3</sup>	Workers	-
PNEC	Fresh water	0.0092 mg/l	-	-
PNEC	Marine water	0.00092 mg/l	-	-

**8.2. Exposure controls**

**Engineering measures:** Ensure there is sufficient ventilation of the area.

**Respiratory protection:** Self-contained breathing apparatus must be available in case of emergency.

**Hand protection:** Impermeable gloves.

**Eye protection:** Tightly fitting safety goggles. Ensure eye bath is to hand.

**Skin protection:** Impermeable protective clothing.

**Environmental:** The floor of the storage room must be impermeable to prevent the escape of liquids.

**Section 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**State:** Liquid

**Colour:** Pale yellow

**Odour:** Characteristic odour

**Evaporation rate:** No data available.

**Oxidising:** No data available.

**Solubility in water:** Not miscible

**Viscosity:** 250 mPas (25°C)

**Boiling point/range°C:** > 200

**Melting point/range°C:** No data available.

**Flammability limits %: lower:** 1.2 vol %

**upper:** 13.0 vol %

**Flash point°C:** > 100

**Part.coeff. n-octanol/water:** No data available.

**Autoflammability°C:** No data available.

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**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 7

**Relative density:** 1.01 - 1.05

**Vapour pressure:** 0.1 hPa (20°C)

**VOC g/l:** No data available.

**pH:** No data available.

**9.2. Other information**

**Other information:** No data available.

**Section 10: Stability and reactivity**

**10.1. Reactivity**

**Reactivity:** Stable under recommended transport or storage conditions.

**10.2. Chemical stability**

**Chemical stability:** Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

**Hazardous reactions:** Hazardous reactions will not occur under normal transport or storage conditions.  
Decomposition may occur on exposure to conditions or materials listed below.

**10.4. Conditions to avoid**

**Conditions to avoid:** Heat.

**10.5. Incompatible materials**

**Materials to avoid:** Strong oxidising agents. Strong acids.

**10.6. Hazardous decomposition products**

**Haz. decomp. products:** In combustion emits toxic fumes.

**Section 11: Toxicological information**

**11.1. Information on toxicological effects**

**Hazardous ingredients:**

**BENZYL ALCOHOL**

DERMAL	RBT	LD50	1260	mg/kg
DUST/MIST	RAT	4H LC50	>4178	mg/kg
IVN	RAT	LD50	53	mg/kg
ORAL	RBT	LD50	1040	mg/kg
ORL	MUS	LD50	1040	mg/kg
ORL	RAT	LD50	1230	mg/kg

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

DERMAL	RAT	LD50	> 2000	mg/kg
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**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 8

DERMAL	RBT	LD50	1840	mg/kg
DUST/MIST	RAT	4H LC50	> 5.01	mg/l
ORAL	RAT	LD50	1030	mg/kg

**1,3-CYCLOHEXANEDIMETHANAMINE**

DERMAL	RBT	LD50	1700	mg/kg
ORAL	RAT	LD50	700	mg/kg

**N'-(3-AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3,-DIAMINE**

DERMAL	RBT	LD50	>2000	mg/kg
ORAL	RAT	LD50	1670	mg/kg

**Relevant hazards for product:**

Hazard	Route	Basis
Acute toxicity (ac. tox. 4)	DRM ING	Hazardous: calculated
Skin corrosion/irritation	DRM	Hazardous: calculated
Serious eye damage/irritation	OPT	Hazardous: calculated
Respiratory/skin sensitisation	DRM	Hazardous: calculated

**Symptoms / routes of exposure**

**Skin contact:** Blistering may occur. Progressive ulceration will occur if treatment is not immediate.

**Eye contact:** Corneal burns may occur. May cause permanent damage.

**Ingestion:** Corrosive burns may appear around the lips. Blood may be vomited. There may be bleeding from the mouth or nose.

**Inhalation:** There may be shortness of breath with a burning sensation in the throat. Exposure may cause coughing or wheezing.

**Delayed / immediate effects:** Immediate effects can be expected after short-term exposure.

**Section 12: Ecological information**

**12.1. Toxicity**

**Hazardous ingredients:**

**BENZYL ALCOHOL**

ALGAE	72H IC50	700	mg/l
DAPHNIA	48H EC50	230	mg/l
FISH	96H LC50	460	mg/l

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**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 9

**3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE**

BACTERIA	18H EC10	1120	mg/l
Daphnia magna	48H EC50	23	mg/l
FISH	96H LC50	110	mg/l
Scenedesmus Subspicatus	72H ErC50	> 50	mg/l

**1,3-CYCLOHEXANEDIMETHANAMINE**

ALGAE	72H ErC50	> 100	mg/l
Daphnia magna	48H EC50	65.4	mg/l
Leuciscus idus	LC50	130	mg/l
Pseudomonas putida	EC50	90	mg/l

**N'-(3-AMINOPROPYL)-N,N-DIMETHYLPROPANE-1,3,-DIAMINE**

ALGAE	72H ErC50	21	mg/l
Daphnia magna	48H EC50	9.2	mg/l
ZEBRAFISH (Brachydanio rerio)	96H LC50	215	mg/l

**12.2. Persistence and degradability**

**Persistence and degradability:** Biodegradable.

**12.3. Bioaccumulative potential**

**Bioaccumulative potential:** No bioaccumulation potential.

**12.4. Mobility in soil**

**Mobility:** Readily absorbed into soil.

**12.5. Results of PBT and vPvB assessment**

**PBT identification:** This product is not identified as a PBT/vPvB substance.

**12.6. Other adverse effects**

**Other adverse effects:** Negligible ecotoxicity.

**Section 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal operations:** Transfer to a suitable container and arrange for collection by specialised disposal company.

**Waste code number:** 08 00 00

**Disposal of packaging:** Arrange for collection by specialised disposal company.

**NB:** The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

[cont...]

**SAFETY DATA SHEET**  
POLYCRAFT CLEARTOP 5 HARDENER

Page: 10

**Section 14: Transport information**

**14.1. UN number**

UN number: UN2735

**14.2. UN proper shipping name**

Shipping name: AMINES, LIQUID, CORROSIVE, N.O.S.  
(Contains: 1,3-CYCLOHEXANEDIMETHANAMINE)

**14.3. Transport hazard class(es)**

Transport class: 8

**14.4. Packing group**

Packing group: II

**14.5. Environmental hazards**

Environmentally hazardous: No

Marine pollutant: Yes

**14.6. Special precautions for user**

Special precautions: No special precautions.

Tunnel code: E

Transport category: 2

**Section 15: Regulatory information**

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

Specific regulations: Not applicable.

**15.2. Chemical Safety Assessment**

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

**Section 16: Other information**

**Other information**

Other information: according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

\* indicates text in the SDS which has changed since the last revision.

Phrases used in s.2 and s.3: H302: Harmful if swallowed.  
H302+H312: Harmful if swallowed or in contact with skin  
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.  
H332: Harmful if inhaled.  
H412: Harmful to aquatic life with long lasting effects.

[cont...]

## **SAFETY DATA SHEET**

POLYCRAFT CLEARTOP 5 HARDENER

**Page:** 11

**Legal disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. This company shall not be held liable for any damage resulting from handling or from contact with the above product.