



**SAFETY DATA SHEET**  
**EpoxyPlus EX (hardener component part B)**

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING**

**1.1 Product Identifier**

**Product name** EpoxyPlus EX (hardener component part B)

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

**Identified uses** Two component epoxy based adhesive.

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

**Supplier** Ancon Building Products  
98 Kurrajong Avenue  
Mount Druitt  
Sydney  
Australia  
NSW 2770

Tel: 1300 66 70 71  
Fax: 02 9669 1702  
Email: sales@helifix.com.au  
Website: www.ancon.com.au/helifix

**Contact person** sales@helifix.com.au

**1.4 Emergency telephone number**

1300 66 70 71 Mon – Fri 09:00 – 17:00  
Police and Fire Brigade: 000  
Poisons Information Centre: 13 11 26

**SECTION 2: HAZARDS IDENTIFICATION**

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

**Classification**

**Physical hazards**

Not Classified

**Health hazards**

Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT RE 2 – H373

**Environmental hazards**

Aquatic Chronic 3 – H412

**Classification (67/548/EEC or 1999/45/EC)**

C; R35. R43

**Human health**

Corrosive. Prolonged contact causes serious eye and tissue damage.



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**Environmental**

The product contains a substance which may have hazardous effects on the environment.

**2.2. Label elements**

**Pictogram**



**Signal word**

Danger

**Hazard statements**

- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H373 May cause damage to organs through prolonged or repeated exposure if inhaled.
- H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

- P260 Do not breathe vapours.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P501 Dispose of contents/container in accordance with national regulations.

**Contains**

STYRENATED PHENOL, 2-PIPERAZIN-1-YLETHYLAMINE, 1,3-CYCLOHEXANEBIS(METHYLAMINE), SALICYLIC ACID

**Supplementary precautionary statements**

- P261 Avoid breathing vapours.
- P264 Wash contaminated skin thoroughly after handling.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P402 Store in a dry place.

**2.3. Other hazards**

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**3.2. Mixtures**

<b>QUARTZ SAND</b>		<b>20-50%</b>
<b>CAS number:</b> 14808-60-7	<b>EC number:</b> 238-878-4	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified		-
<b>CRYSTALLINE SILICA</b>		<b>20-50%</b>
<b>CAS number:</b> 14808-60-7	<b>EC number:</b> 238-878-4	
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>



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STOT RE 2 - H373

**STYRENATED PHENOL** **10-20%**  
**CAS number:** 61788-44-1 **EC number:** 262-975-0 **REACH registration number:** 01-2119979575-18-XXXX  
**Classification** **Classification (67/548/EEC or 1999/45/EC)**  
Skin Irrit. 2 - H315 Xi;R36/38.  
Eye Irrit. 2 - H319  
Skin Sens. 1A - H317  
Aquatic Chronic 2 – H411

**2-PIPERAZIN-1-YLETHYLAMINE** **5-10%**  
**CAS number:** 140-31-8 **EC number:** 205-411-0 **REACH registration number:** 01-2119471486-30-XXXX  
**Classification** **Classification (67/548/EEC or 1999/45/EC)**  
Acute Tox. 4 - H302 C;R34 Xn;R21/22 R43 R52/53  
Acute Tox. 3 - H311  
Skin Corr. 1B - H314  
Skin Sens. 1 - H317  
Aquatic Chronic 3 - H412

**1,3-CYCLOHEXANEBIS(METHYLAMINE)** **5-10%**  
**CAS number:** 2579-20-6 **EC number:** 219-941-5 **REACH registration number:** 01-2119543741-41-XXXX  
**Classification** **Classification (67/548/EEC or 1999/45/EC)**  
Acute Tox. 4 - H302 Xn;R21/22. C;R35. R52/53.  
Acute Tox. 4 - H312  
Skin Corr. 1A - H314  
Aquatic Chronic 3 - H412

**SALICYLIC ACID** **1-5%**  
**CAS number:** 69-72-7 **EC number:** 200-712-3 **REACH registration number:** 01-2119486984-17-XXXX  
**Classification** **Classification (67/548/EEC or 1999/45/EC)**  
Acute Tox. 4 - H302 Xn;R22. Xi;R41.  
Eye Dam. 1 - H318

**BIS(ISOPROPYL)NAPHTHALENE** **<0.5%**  
**CAS number:** 24157-81-1 **EC number:** 246-045-1 **REACH registration number:** 01-2119565150-48-XXXX  
**M factor (Chronic) = 1**  
**Classification** **Classification (67/548/EEC or 1999/45/EC)**  
Asp. Tox. 1 - H304  
Aquatic Chronic 1 – H410

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

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**SECTION 4: FIRST AID MEASURES**

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**4.1. Description of first aid measures**

**Inhalation**

Remove affected person from source of contamination. Get medical attention if any discomfort continues.



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**Ingestion**

DO NOT induce vomiting. Get medical attention immediately.

**Skin contact**

Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if any discomfort continues.

**Eye contact**

Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing. Show this Safety Data Sheet to the medical personnel.

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

**Inhalation**

Irritation of nose, throat and airway.

**Ingestion**

May cause stomach pain or vomiting.

**Skin contact**

Burning pain and severe corrosive skin damage. Blistering may occur. Chemical burns.

**Eye contact**

May cause blurred vision and serious eye damage.

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

**Notes for the doctor**

No specific recommendations. If in doubt, get medical attention promptly.

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**SECTION 5: FIRE FIGHTING MEASURES**

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**5.1. Extinguishing media**

**Suitable extinguishing media**

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

**Unsuitable extinguishing media**

DO NOT use water if avoidable.

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

**Specific hazards**

No unusual fire or explosion hazards noted.

**Hazardous combustion products**

Oxides of carbon. Oxides of nitrogen.

**5.3. Advice for firefighters**

**Protective actions during firefighting**

No specific firefighting precautions known.



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**Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions**

Wear protective clothing as described in Section 8 of this safety data sheet.

**6.2. Environmental precautions**

**Environmental precautions**

Collect and dispose of spillage as indicated in Section 13. Contain spillage with sand, earth or other suitable non-combustible material. Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up**

Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

**6.4. Reference to other sections**

**Reference to other sections**

For personal protection, see Section 8. Collect and dispose of spillage as indicated in Section 13.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

**Usage precautions**

Avoid contact with skin. Avoid contact with eyes. Do not empty into drains.

**Advice on general occupational hygiene**

Do not eat, drink or smoke when using this product. No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

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

**Storage precautions**

Keep away from food and drink. Keep container closed when not in use.

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

**Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits**

**QUARTZ SAND**

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL



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**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

Long-term exposure limit (8-hour TWA): WEL 0.1 ppm(Sk) 0.8 mg/m<sup>3</sup>(Sk)

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

**STYRENATED PHENOL (CAS: 61788-44-1)**

**DNEL** Industry - Inhalation; Long term systemic effects: 0.734649123 mg/m<sup>3</sup>  
REACH dossier information  
Industry - Dermal; Long term systemic effects: 0.416666667 mg/kg/day

**PNEC** - Fresh water; 0.001371 mg/l  
REACH dossier information  
- Marine water; 0.0001371 mg/l  
- Intermittent release; 0.01371 mg/l  
- STP; 1.0638 mg/l  
- Sediment (Freshwater); 43.65269484 mg/kg  
- Sediment (Marinewater); 43.65269484 mg/kg  
- Soil; 20.64517608 mg/kg

**2-PIPERAZIN-1-YLETHYLAMINE (CAS: 140-31-8)**

**DNEL** Industry - Inhalation; Long term systemic effects: 3.6 mg/m<sup>3</sup>  
REACH dossier information  
Industry - Inhalation; Short term systemic effects: 21.4 mg/m<sup>3</sup>  
Industry - Dermal; Long term systemic effects: 3.3 mg/kg/day  
Industry - Dermal; Short term systemic effects: 20 mg/kg/day  
Industry - Dermal; Long term local effects: 0.006 mg/kg/day  
Industry - Dermal; Short term local effects: 0.04 mg/kg/day

**PNEC** - Fresh water; 0.058 mg/l  
REACH dossier information  
- Marine water; 0.0058 mg/l  
- Intermittent release; 0.58 mg/l  
- STP; 250 mg/l  
- Sediment (Freshwater); 215 mg/kg  
- Sediment (Marinewater); 21.5 mg/kg  
- Soil; 42.9 mg/kg

**1,3-CYCLOHEXANEBIS(METHYLAMINE) (CAS: 2579-20-6)**

**DNEL** Industry - Inhalation; Long term systemic effects: 0.71 mg/m<sup>3</sup>  
REACH dossier information  
Industry - Inhalation; Short term systemic effects: 21.2 mg/m<sup>3</sup>  
Industry - Dermal; Long term systemic effects: 0.2 mg/kg/day  
Industry - Dermal; Short term systemic effects: 6 mg/kg/day



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**PNEC** - Fresh water; 0.0331 mg/l  
REACH dossier information  
- Marine water; 0.00331 mg/l  
- Intermittent release; 0.331 mg/l  
- STP; 10 mg/l

**SALICYLIC ACID (CAS: 69-72-7)**

**DNEL** Industry - Inhalation; Long term systemic effects: 16 mg/m<sup>3</sup>  
REACH dossier information  
Industry - Dermal; Long term systemic effects: 2 mg/kg/day

**PNEC** - Fresh water; 0.2 mg/l  
REACH dossier information  
- Marine water; 0.02 mg/l  
- Intermittent release; 1 mg/l  
- STP; 162 mg/l  
- Sediment (Freshwater); 1.42 mg/kg  
- Sediment (Marinewater); 0.142 mg/kg  
- Soil; 0.166 mg/kg

**BIS(ISOPROPYL)NAPHTHALENE (CAS:24157-81-1)**

**DNEL** Workers - Inhalation; Long term systemic effects: 30 mg/m<sup>3</sup>  
Workers – Dermal: Long term systemic effects: 4.3 mg/kg/day  
REACH dossier information

**DMEL** Workers – Inhalation; Long term systemic effects: 300 mg/m<sup>3</sup>

**PNEC** - Fresh water; 0.26 µg/L  
- Marine water; 0.26 µg/L  
- STP; 0.15 mg/l  
- Sediment (Freshwater); 0.94 mg/kg  
- Sediment (Marinewater); 0.094 mg/l

**8.2. Exposure controls**

**Protective equipment**



**Appropriate engineering controls**

Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

**Eye/face protection**

The following protection should be worn: Tight-fitting safety glasses. Contact lenses should not be worn when working with this chemical.



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**Hand protection**

Wear protective gloves made of the following material: Nitrile rubber.

**Other skin and body protection**

Avoid contact with skin. Wear appropriate clothing to prevent repeated or prolonged skin contact.

**Hygiene measures**

Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Use engineering controls to reduce air contamination to permissible exposure level.

**Respiratory protection**

If ventilation is inadequate, suitable respiratory protection must be worn.

**Environmental exposure controls**

Keep container tightly sealed when not in use. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

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**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

**Appearance**

Liquid

**Colour**

Brownish.

**Odour**

Characteristic. Amine.

**Odour threshold**

Not determined.

**pH**

Not applicable.

**Melting point**

Not determined.

**Initial boiling point and range**

Not determined.

**Flash point**

>100°C CC (Closed cup). Literature

**Evaporation rate**

Not determined.

**Evaporation factor**

Not determined.

**Flammability (solid, gas)**

Not determined.





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**Upper/lower flammability or explosive limits**

Not determined.

**Other flammability**

Not applicable.

**Vapour pressure**

Not determined.

**Vapour density**

Not determined.

**Relative density**

1.75 - 1.85

**Bulk density**

Not available.

**Solubility(ies)**

Not determined.

**Partition coefficient**

Not determined.

**Auto-ignition temperature**

Not determined.

**Decomposition Temperature**

Not determined.

**Viscosity**

> 60 S ISO2431

**Explosive properties**

No information available.

**Explosive under the influence of a flame**

Not considered to be explosive.

**Oxidising properties**

Does not meet the criteria for classification as oxidising

**9.2. Other information**

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**SECTION 10: STABILITY AND REACTIVITY**

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**10.1. Reactivity**

The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides.

**10.2. Chemical stability**

**Stability**

Stable at normal ambient temperatures and when used as recommended.

**10.3. Possibility of hazardous reactions**

The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides.



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**10.4. Conditions to avoid**

Stable. However, may decompose if heated.

**10.5. Incompatible materials**

**Materials to avoid**

Acids. Epoxides. Oxidising agents. Peroxides.

**10.6. Hazardous decomposition products**

Oxides of carbon. Oxides of nitrogen.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity - oral**

**ATE oral (mg/kg)**

2,998.43483333

**Acute toxicity - dermal**

**ATE dermal (mg/kg)**

3249.05028208

**Skin sensitisation**

Sensitising.

**Inhalation**

Vapour may irritate respiratory system/lungs.

**Ingestion**

May cause stomach pain or vomiting.

**Skin contact**

May cause sensitisation by skin contact. May cause serious chemical burns to the skin.

**Eye contact**

Risk of serious damage to eyes. May cause chemical eye burns.

**Acute and chronic health hazards**

May cause sensitisation by skin contact. Causes severe burns.

**Route of entry**

Skin and/or eye contact Inhalation

**Target organs**

No specific target organs known.

**Medical symptoms**

Symptoms following overexposure may include the following: Chemical burns.

**Medical considerations**

Splash in eye requires examination by eye specialist.

**Toxicological information on ingredients.**

**STYRENATED PHENOL**

**Acute toxicity - oral**

**Acute toxicity oral (LD50 mg/kg)**



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2,000  
**Species**  
Rat

**Acute toxicity - dermal**  
**Acute toxicity dermal (LD50 mg/kg)**  
2000  
**Species**  
Rat

**2-PIPERAZIN-1-YLETHYLAMINE**

**Acute toxicity - oral**  
**Acute toxicity oral (LD50 mg/kg)**  
1,470  
**Species**  
Rat

**Acute toxicity - dermal**  
**Acute toxicity dermal (LD50 mg/kg)**  
866  
**Species**  
Rabbit  
**ATE dermal (mg/kg)**  
300.0

**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

**Acute toxicity - oral**  
**Acute toxicity oral (LD50 mg/kg)**  
700  
**Species**  
Rat

**Acute toxicity - dermal**  
**Acute toxicity dermal (LD50 mg/kg)**  
1700  
**Species**  
Rabbit

**SALICYLIC ACID**

**Acute toxicity - oral**  
**Acute toxicity oral (LD50 mg/kg)**  
891  
**Species**  
Rat

**Acute toxicity - dermal**  
**Acute toxicity dermal (LD50 mg/kg)**  
2000  
**Species**  
Rat

**BIS(ISOPROPYL)NAPHTHALENE**

**Acute toxicity - oral**  
**Acute toxicity oral (LD50 mg/kg)**  
4,130.0  
**Species**



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Rat

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**Ecological information on ingredients.**

**STYRENATED PHENOL**

**Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: 14.8 mg/l,

**Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 1-10 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**

EC<sub>50</sub>, 72 hours: 3.14 mg/l, Scenedesmus subspicatus

**Chronic aquatic toxicity**

**NOEC**

0.01 < NOEC ≤ 0.1

**2-PIPERAZIN-1-YLETHYLAMINE**

**Acute toxicity - fish**

LC<sub>50</sub>, 96 hours: 2190 mg/l, Pimephales promelas (Fat-head Minnow) LC<sub>50</sub>, 96 hours: 368 mg/l, Poecilia reticulata (Guppy)

**Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 32 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**

EC<sub>50</sub>, 48 hours: 494 mg/l, Selenastrum capricornutum

**1,3-CYCLOHEXANEBIS(METHYLAMINE)**

**Acute toxicity - fish**

LC<sub>50</sub>, > 96 hours: 100 mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - aquatic invertebrates**

EC<sub>50</sub>, 48 hours: 29 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**

EC<sub>50</sub>, > 96 hours: 100 mg/l, Scenedesmus subspicatus

**Acute toxicity - terrestrial**

EC<sub>50</sub>, > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm)

**SALICYLIC ACID**

**Acute toxicity - fish**

LC<sub>50</sub>, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe)

**Acute toxicity - microorganisms**

EC<sub>50</sub>, > 3 hours: 3200 mg/l, Activated sludge

**12.2. Persistence and degradability**

**Persistence and degradability**

There are no data on the degradability of this product.



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**12.3. Bioaccumulative potential**

No data available on bioaccumulation.

**Partition coefficient**

Not determined.

**12.4. Mobility in soil**

**Mobility**

Mobile. The product is miscible with water and may spread in water systems.

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

This product does not contain any substances classified as PBT or vPvB.

**12.6. Other adverse effects**

**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

**General information**

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

**Disposal methods**

Dispose of waste via a licensed waste disposal contractor.

**SECTION 14: TRANSPORT INFORMATION**

**14.1. UN number**

UN No. (ADR/RID)	2735
UN No. (IMDG)	2735
UN No. (ICAO)	2735

**14.2. UN proper shipping name**

Proper shipping name (ADR/RID)	AMINES, LIQUID, CORROSIVE, N.O.S.
Proper shipping name (IMDG)	AMINES, LIQUID, CORROSIVE, N.O.S.
Proper shipping name (ICAO)	AMINES, LIQUID, CORROSIVE, N.O.S.
Proper shipping name (ADN)	AMINES, LIQUID, CORROSIVE, N.O.S.

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

ADR/RID class	8
ADR/RID subsidiary risk	
ADR/RID label	8
IMDG class	8
IMDG subsidiary risk	
ICAO class/division	8
ICAO subsidiary risk	

**Transport labels**





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**14.4. Packing group**

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

**14.5. Environmental hazards**

**14.6. Special precautions for user**

EmS	F-A, S-B
Emergency Action Code	2X
Hazard Identification Number (ADR/RID)	80
Tunnel restriction code	(E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

**SECTION 15: REGULATORY INFORMATION**

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

**EU legislation**

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

**Guidance**

Workplace Exposure Limits EH40.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

**Revision comments**

Revision date	01/09/2014
Revision	1
SDS number	HA7

**Risk phrases in full**

R21/22 Harmful in contact with skin and if swallowed.  
R22 Harmful if swallowed.  
R34 Causes burns.  
R35 Causes severe burns.  
R36/38 Irritating to eyes and skin.  
R41 Risk of serious damage to eyes.  
R43 May cause sensitisation by skin contact.  
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Hazard statements in full**

H302 Harmful if swallowed.  
H311 Toxic in contact with skin.  
H312 Harmful in contact with skin.  
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.  
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.  
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.

Disclaimer

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 process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.