



SAFETY DATA SHEET
CrackFix (*hardener component part B*)

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

1.1 Product Identifier

Product name CrackFix (*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

Acute Tox. 4 – H302 Acute Tox. 4 - H312 Skin Corr. 1A - H314 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards

Aquatic Chronic 3 - H412

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

Xn; R21. C; R35. Xi; R36. R52/53, 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

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

Precautionary statements

P273 Avoid release to the environment.
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.
P362+P364 Take off contaminated clothing and wash it before reuse.

Contains

HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS, 2-PIPERAZIN-1-YLETHYLAMINE, STYRENATED PHENOL, BENZYL ALCOHOL, 2,4,6- TRIS(DIMETHYLAMINOMETHYL)PHENOL, 1,3-CYCLOHEXANEBIS(METHYLAMINE), SALICYCLIC ACID 3-AMINOPROPYLDIMETHYLAMINE, TRIETHYLENETETRAMINE

Supplementary precautionary statements

P260 Do not breathe vapour/spray.
P264 Wash contaminated skin thoroughly after handling.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P402 Store in a dry place.
P501 Dispose of contents/container in accordance with national regulations.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS

20-50%

CAS number: 71302-91-5 EC number: —

Classification

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



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Acute Tox. 4 - H302

Xn;R22.

2-PIPERAZIN-1-YLETHYLAMINE

20-50%

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

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

BENZYL ALCOHOL

5-10%

CAS number: 100-51-6

EC number: 202-859-9

REACH registration number: 01-2119492630-38-XXXX

Classification

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

Acute Tox. 4 - H302

Xn;R20/22

Acute Tox. 4 - H332

Eye Irrit. 2 - H319

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

5-10%

CAS number: 90-72-2

EC number: 202-013-9

REACH registration number: 01-2119560597-27-XXXX

Classification

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

Acute Tox. 4 - H302

Xn;R22 Xi;R36/38

Skin Corr. 1B - H314

Skin Sens. 1B - 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

Eye Dam. 1 - H318

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



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3-AMINOPROPYLDIMETHYLAMINE >0.5 <1.0%
CAS number: 109-55-7 **EC number:** 203-680-9 **REACH registration number:** 01-2119486842-27
Classification **Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 3 - H226 R10 C;R34 Xn;R22 R43
Acute Tox. 4 - H302
Skin Corr. 1B - H314
Skin Sens. 1 - H317

TRIETHYLENETETRAMINE >0.5 <1.0%
CAS number: 112-24-3 **EC number:** 203-950-6 **REACH registration number:** 01-2119487919-13-XXXX
Classification **Classification (67/548/EEC or 1999/45/EC)**
Acute Tox. 4 - H302 C;R34 Xn;R21 R43 R52/53
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

BIS(ISOPROPYL)NAPHTHALENE >0.5 <1.0%
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

CYCLOHEXANONE <0.5%
CAS number: 108-94-1 **EC number:** 203-631-1 **REACH registration number:** 01-2119453616-35
Classification **Classification (67/548/EEC or 1999/45/EC)**
Flam. Liq. 3 - H226 R10 Xn;R20
Acute Tox. 4 - H302
Acute Tox. 4 - H312
Acute Tox. 4 - H332
Skin Irrit. 2 - H315
Eye Dam. 1 - H318

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

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation

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

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.



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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.

SECTION 5: FIRE FIGHTING MEASURES

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.

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.



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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

1,3-CYCLOHEXANEBIS(METHYLAMINE)

Long-term exposure limit (8-hour TWA): WEL 0.1 ppm(Sk) 0.8 mg/m³(Sk)
Sk

CYCLOHEXANONE

Long-term exposure limit (8-hour TWA): WEL 10 ppm(Sk) 41 mg/m³
Short-term exposure limit (15-minute): WEL 20 ppm(Sk) 82 mg/m³
Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.



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

DNEL Industry - Inhalation; Long term systemic effects: 3.6 mg/m3
REACH dossier information
Industry - Inhalation; Short term systemic effects: 21.4 mg/m3
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

STYRENATED PHENOL (CAS: 61788-44-1)

DNEL Industry - Inhalation; Long term systemic effects: 0.734649123 mg/m3
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

BENZYL ALCOHOL (CAS: 100-51-6)

DNEL Industry - Inhalation; Short term systemic effects: 450 mg/m3
Industry - Inhalation; Long term systemic effects: 90 mg/m3
Industry - Dermal; Short term systemic effects: 47 mg/kg/day
Industry - Dermal; Long term systemic effects: 9.5 mg/kg/day

PNEC - Fresh water; 1.0 mg/l
- Marine water; 0.1 mg/l
- Sediment (Freshwater); 5.27 mg/kg
- Sediment (Marinewater); 0.57 mg/kg
- Soil; 0.456 mg/kg
- STP; 39 mg/l
- Intermittent release; 2.3 mg/l



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2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL (CAS: 90-72-2)

DNEL Industry - Inhalation; Long term systemic effects: 0.31 mg/m³
Industry - Dermal; Long term systemic effects: 0.2 mg/kg/day

PNEC - Fresh water; 0.084 mg/l
- Marine water; 0.0084 mg/l
- Intermittent release; 0.84 mg/l
- STP; 0.2 mg/l

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

DNEL Industry - Inhalation; Long term systemic effects: 0.71 mg/m³
REACH dossier information
Industry - Inhalation; Short term systemic effects: 21.2 mg/m³
Industry - Dermal; Long term systemic effects: 0.2 mg/kg/day
Industry - Dermal; Short term systemic effects: 6 mg/kg/day

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/m³
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 (Marinewater); 0.142 mg/kg
- Soil; 0.166 mg/kg

3-AMINOPROPYLDIMETHYLAMINE (CAS: 109-55-7)

DNEL Industry - Inhalation; Long term systemic effects: 4.9 mg/m³
REACH dossier information
Industry - Inhalation; Short term systemic effects: 9.8 mg/m³
Industry - Inhalation; Long term local effects: 4.9 mg/m³
Industry - Inhalation; Short term local effects: 9.8 mg/m³

PNEC - Fresh water; 0.0535 mg/l
REACH dossier information



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- Marine water; 0.00535 mg/l
- Intermittent release; 0.535 mg/l
- STP; 69.5 mg/l
- Sediment (Freshwater); 0.585 mg/kg
- Sediment (Marinewater); 0.0585 mg/kg
- Soil; 0.0854 mg/kg

TRIETHYLENETETRAMINE (CAS: 112-24-3)

DNEL Industry - Dermal; Short term systemic effects: 5380 mg/kg/day
Industry - Inhalation; Long term systemic effects: 1.0 mg/m³

PNEC - Fresh water; 0.135 mg/l
- Marine water; 0.0027 mg/l

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

DNEL Workers - Inhalation; Long term systemic effects: 30 mg/m³
Workers - Dermal; Long term systemic effects: 4.3 mg/kg/day
REACH dossier information

DMEL Workers – Inhalation; Long term systemic effects: 300 mg/m³
REACH dossier information

PNEC - Fresh water; 0.26 µg/L
- Marine water; 0.026 µg/L
- STP; 0.15 mg/l
- Sediment (Freshwater); 0.94 mg/kg
- Sediment (Marinewater); 0.094 mg/l

CYCLOHEXANONE (CAS: 108-94-1)

DNEL Industry - Inhalation; Long term systemic effects: 40 mg/m³
REACH dossier information
Industry - Inhalation; Short term systemic effects: 80 mg/m³
Industry - Inhalation; Long term local effects: 40 mg/m³
Industry - Inhalation; Short term local effects: 80 mg/m³
Industry - Dermal; Long term systemic effects: 4 mg/kg/day
Industry - Dermal; Short term systemic effects: 4 mg/kg/day

PNEC - Fresh water; 0.0329 mg/l
REACH dossier information
- Marine water; 0.00329 mg/l
- Intermittent release; 0.329 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 0.168 mg/kg
- Sediment (Marinewater); 0.0168 mg/kg
- Soil; 0.0143 mg/kg



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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.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance

Liquid

Colour

Amber. to Brown.

Odour

Characteristic. Amine.

Odour threshold

Not determined.

pH

Not applicable.



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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.

Upper/lower flammability or explosive limits

Not determined.

Other flammability

Not applicable.

Vapour pressure

Not determined.

Relative density

~ 1.00

Bulk density

Not available.

Solubility(ies)

Not determined.

Partition coefficient

Not determined.

Auto-ignition temperature

Not determined.

Decomposition Temperature

Not determined.

Viscosity

~500 mPa s @ 20°C

Explosive properties

No information available.

Explosive under the influence of a flame

Not considered to be explosive.



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Oxidising properties

Does not meet the criteria for classification as oxidising.

9.2. Other information

SECTION 10: STABILITY AND REACTIVITY

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.

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)

611.25292179

Acute toxicity - dermal

ATE dermal (mg/kg)

1149.36871968

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

137.16993484

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.



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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.

HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

1,200

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

10000

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

STYRENATED PHENOL

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

2,000

Species

Rat

Acute toxicity - dermal



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Acute toxicity dermal (LD50 mg/kg)

2000

Species

Rat

BENZYL ALCOHOL

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

1,040

Species

Rabbit

ATE oral (mg/kg)

500.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

2000

Species

Rabbit

Acute toxicity - inhalation

ATE inhalation (vapours mg/l)

11.0

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

2,169

Species

Rat

ATE oral (mg/kg)

500.0

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)

1

Species

Rat

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



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Species
Rat

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

3-AMINOPROPYLDIMETHYLAMINE

Acute toxicity - oral
Acute toxicity oral (LD50 mg/kg)
1,600
Species
Rat

Acute toxicity - dermal
Acute toxicity dermal (LD50 mg/kg)
1200
Species
Rat

TRIETHYLENETETRAMINE

Acute toxicity - oral
Acute toxicity oral (LD50 mg/kg)
5,500
Species
Rabbit
ATE oral (mg/kg)
500.0

Acute toxicity - dermal
Acute toxicity dermal (LD50 mg/kg)
1465
Species
Rat
ATE dermal (mg/kg)
1100

BIS(ISOPROPYL)NAPHTHALENE

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

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological information on ingredients.

2-PIPERAZIN-1-YLETHYLAMINE

Acute toxicity - fish
LC50, 96 hours: 2190 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 96 hours: 368 mg/l, Poecilia reticulata (Guppy)



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Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 32 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 48 hours: 494 mg/l, Selenastrum capricornutum

STYRENATED PHENOL

Acute toxicity - fish

LC₅₀, 96 hours: 14.8 mg/l,

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 1-10 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 3.14 mg/l, Scenedesmus subspicatus

BENZYL ALCOHOL

Acute toxicity - fish

LC₅₀, 96 hours: 10 mg/l, Lepomis macrochirus (Bluegill) LC₅₀, 96 hours: 645 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 400 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 3 hours: 79 mg/l, Scenedesmus subspicatus EC₅₀, 96 hours: 640 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms

EC₅₀, 48 hours: 2100 mg/l, Activated sludge

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL

Acute toxicity - fish

LC₅₀, 96 hours: 180 - 240 mg/l, Onchorhynchus mykiss (Rainbow trout) LC₅₀, 96 hours: 175 mg/l, Cyprinus carpio (Common carp)

1,3-CYCLOHEXANEBIS(METHYLAMINE)

Acute toxicity - fish

LC₅₀, > 96 hours: 100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 29 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, > 96 hours: 100 mg/l, Scenedesmus subspicatus

Acute toxicity - terrestrial

C₅₀, > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm)

SALICYLIC ACID

Acute toxicity - fish

LC₅₀, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - microorganisms

EC₅₀, > 3 hours: 3200 mg/l, Activated sludge



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TRIETHYLENETETRAMINE

Acute toxicity - fish

LC50, 96 hours: 330 mg/l, Pimephales promelas (Fat-head Minnow) LC50, 96 hours: 570 mg/l, Poecilia reticulata (Guppy)

Acute toxicity - aquatic invertebrates

EC₅₀, 48 hours: 31 mg/l, Daphnia magna

Acute toxicity - aquatic plants

EC₅₀, 72 hours: 20 mg/l, Selenastrum capricornutum

Acute toxicity – microorganisms

, : 800 mg/l, Activated sludge

12.2. Persistence and degradability

Persistence and degradability

There are no data on the degradability of this product.

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.



SAFETY DATA SHEET
CrackFix (hardener component part B)

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



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 HA5



SAFETY DATA SHEET
CrackFix (*hardener component part B*)

Risk phrases in full

R10 Flammable.
R20/22 Harmful by inhalation and if swallowed.
R21 Harmful in contact with skin.
R21/22 Harmful in contact with skin and if swallowed.
R22 Harmful if swallowed.
R34 Causes burns.
R35 Causes severe burns.
R36 Irritating to eyes.
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

H226 Flammable liquid and vapour.
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.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful 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.