



SAFETY DATA SHEET
CrackFix (resin component part A)

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

1.1 Product Identifier

Product name CrackFix (resin component part A)

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 Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317

Environmental hazards

Aquatic Chronic 2 - H411

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

Xi; R36/38. N; R51/53. R43

2.2. Label elements

Pictogram





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Signal word	Warning
Hazard statements	H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H411 Toxic 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. 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	EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN, 1,6-HEXANEDIOL DIGLYCIDYLETHER
Supplementary precautionary statements	P264 Wash contaminated skin thoroughly after handling. P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse. P391 Collect spillage.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

EPOXY RESIN (Number average MW <= 700)	50-80%
CAS number: 25068-38-6 EC number: 500-033-5	REACH registration number: 01-2119456619-26-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	R43 Xi;R36/38 N;R51/53
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
EPOXY PHENOL FORMALDEHYDE RESIN	20-50%
CAS number: 28064-14-4 EC number: 500-108-2	
Classification	Classification (67/548/EEC or 1999/45/EC)
Skin Irrit. 2 - H315	Xi;R36/38. N;R51/53. R43.
Eye Irrit. 2 - H319	
Skin Sens. 1 - H317	
Aquatic Chronic 2 - H411	
1,6-HEXANEDIOL DIGLYCIDYLETHER	10-20%
CAS number: 16096-31-4 EC number: 240-260-4	REACH registration number: 01-2119463471-41-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)



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Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1A - H317
Aquatic Chronic 3 - H412

Xi;R36/38. R43,R52/53.

The full text for all R-Phrases 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.

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

May cause respiratory irritation.

Ingestion

May cause stomach pain or vomiting.

Skin contact

Prolonged or repeated contact with skin may cause irritation, redness and dermatitis. May cause sensitisation by skin contact.

Eye contact

Irritating to eyes.

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.



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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.

6.2. Environmental precautions

Environmental precautions

Avoid release to the environment.

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 eyes. Avoid contact with skin.

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, drink and animal feeding stuffs. Keep container tightly sealed when not in use.



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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

DNEL	EPOXY RESIN (Number average MW <= 700) (CAS: 25068-38-6) Industry - Inhalation; Long term systemic effects: 12.25 mg/m ³ Industry - Inhalation; Short term systemic effects: 12.25 mg/m ³ Industry - Dermal; Long term systemic effects: 8.33 mg/kg/day Industry - Dermal; Short term systemic effects: 8.33 mg/kg/day REACH dossier information
PNEC	- Fresh water; 0.006 mg/l - Marine water; 0.0006 mg/l - Intermittent release; 0.018 mg/l - STP; 10 mg/l - Sediment (Freshwater); 0.996 mg/kg - Sediment (Marinewater); 0.0996 mg/kg - Soil; 0.196 mg/kg REACH dossier information
DNEL	1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4) Industry - Inhalation; Long term systemic effects: 4.9 mg/m ³ Industry - Inhalation; Short term systemic effects: 4.9 mg/m ³ Industry - Inhalation; Long term local effects: 0.44 mg/m ³ Industry - Dermal; Long term systemic effects: 2.8 mg/kg/day Industry - Dermal; Long term local effects: 22.6 µg/cm ² Industry - Dermal; Short term local effects: 22.6 µg/cm ² REACH dossier information
PNEC	- Fresh water; 0.0115 mg/l - Marine water; 0.00115 mg/l - Intermittent release; 0.115 mg/l - STP; 1 mg/l - Sediment (Freshwater); 0.283 mg/kg - Sediment (Marinewater); 0.0283 mg/kg - Soil; 0.223 mg/kg REACH dossier information

8.2. Exposure controls

Protective equipment





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Appropriate engineering controls

No specific ventilation requirements.

Eye/face protection

Wear eye protection.

Hand protection

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

Hygiene measures

Provide eyewash station. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated.

Respiratory protection

Not relevant.

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

Yellow-white.

Odour

Characteristic.

Odour threshold

Not determined.

pH

Not applicable.

Melting point

Not applicable.

Initial boiling point and range

>35°C @ 760 mm Hg

Flash point

>100°C CC (Closed cup). Literature

Evaporation rate

No information available.

Evaporation factor

Not applicable.



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Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Not applicable.

Other flammability

Not available.

Vapour pressure

<500 Pa @ °C

Vapour density

No information available.

Relative density

1.1 - 1.2

Bulk density

Not applicable.

Solubility(ies)

Insoluble in water

Partition coefficient

Not determined.

Auto-ignition temperature

Not determined.

Decomposition Temperature

Not determined.

Viscosity

500 - 1000 mPa s @ 20°C

Explosive properties

No information available.

Explosive under the influence of a flame

No

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. Amides. Amines. Phenols, cresols.

10.2. Chemical stability

Stability

Stable at normal ambient temperatures and when used as recommended.



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10.3. Possibility of hazardous reactions

The following materials may react with the product: Acids. Amides. Amines. Phenols, cresols.

10.4. Conditions to avoid

Avoid contact with acids and alkalis.

10.5. Incompatible materials

Materials to avoid

Acids. Amines. Amides.

10.6. Hazardous decomposition products

Oxides of carbon. Oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin sensitisation

Sensitising.

General information

Contains epoxy constituents. May produce an allergic reaction.

Inhalation

No specific health hazards known.

Ingestion

No harmful effects expected from quantities likely to be ingested by accident.

Skin contact

Irritating to skin. May cause sensitisation by skin contact.

Eye contact

May cause severe eye irritation.

Acute and chronic health hazards

Irritating to skin. Irritating to eyes.

Route of entry

Skin and/or eye contact.

Medical symptoms

Skin irritation.

Medical considerations

Skin disorders and allergies.

Toxicological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral

Acute toxicity oral (LD50 mg/kg)

11,400

Species

Rat

Acute toxicity - dermal

Acute toxicity dermal (LD50 mg/kg)



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1200
Species
Rat

1,6-HEXANEDIOL DIGLYCIDYLETHER

Acute toxicity - oral
Acute toxicity oral (LD50 mg/kg)
3,010
Species
Rat

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - fish
LC50, 96 hours: 2 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates
EC50, 48 hours: 1.8 mg/l, Daphnia magna

Acute toxicity - aquatic plants
EC50, 72 hours: 11 mg/l, Freshwater algae EC50, 96 hours: 220 mg/l, Scenedesmus subspicatus

Chronic toxicity - aquatic invertebrates
NOEC, 21 days: 0.3 mg/l, Daphnia magna

1,6-HEXANEDIOL DIGLYCIDYLETHER

Acute toxicity - fish
LC50, 96 hours: 30 mg/l, Onchorhynchus mykiss (Rainbow trout)

12.2. Persistence and degradability

Persistence and degradability
The product is not biodegradable.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Biodegradation
- : 28 days

1,6-HEXANEDIOL DIGLYCIDYLETHER

Biodegradation
- : 28 days OECD 301D

12.3. Bioaccumulative potential

No data available on bioaccumulation.

Partition coefficient
Not determined.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

May accumulate in soil and water systems. BCF: 100 - 3000,



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Partition coefficient
Log Pow: 3.242 Estimated Value

1,6-HEXANEDIOL DIGLYCIDYLETHER

BCF: < 100, Estimated Value
Partition coefficient
log Pow: -0.272 Estimated Value

12.4. Mobility in soil

Mobility

The product is insoluble in water and will spread on the water surface. The product is non-volatile. Semi-mobile.

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

Mobility
Semi-mobile.

Adsorption/desorption coefficient
Soil - Koc: 1800 - 4400 @ °C Estimated Value

Henry's law constant
4.93E-05 Pa m³/mol @ 25°C

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

EPOXY RESIN (Number average MW <= 700)

This substance is not classified as PBT or vPvB according to current EU criteria.

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Disposal methods

Residues and empty containers should be taken care of as hazardous waste according to local and national provisions. Dispose of waste via a licensed waste disposal contractor.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID)	3082
UN No. (IMDG)	3082
UN No. (ICAO)	3082

14.2. UN proper shipping name

Proper shipping name (ADR/RID)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.



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14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID subsidiary risk	
ADR/RID label	9
IMDG class	9
IMDG subsidiary risk	
ICAO class/division	9
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

Environmentally hazardous substance/marine pollutant



Yes.

14.6. Special precautions for user

EmS	F-A, S-F
Emergency Action Code	•3Z
Hazard Identification Number (ADR/RID)	90
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.



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SECTION 16: OTHER INFORMATION

Revision comments

SDS number HA6

Revision number 1

Risk phrases in full

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazard statements in full

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

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.