



**SAFETY DATA SHEET**  
**CrackBond TE3 (resin component part A)**

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

**1.1 Product Identifier**

**Product name** CrackBond TE3 (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**





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<b>Signal word</b>	Warning
<b>Hazard statements</b>	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.
<b>Precautionary statements</b>	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.
<b>Contains</b>	EPOXY RESIN (Number average MW <= 700 ), EPOXY PHENOL FORMALDEHYDE RESIN, 1,6-HEXANEDIOL DIGLYCIDYLETHER
<b>Supplementary precautionary statements</b>	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**

**3.2. Mixtures**

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



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Eye Irrit. 2 - H319  
Skin Sens. 1 - H317  
Aquatic Chronic 2 - H411

**1,6-HEXANEDIOL DIGLYCIDYLETHER**

**5-10%**

**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)**

Skin Irrit. 2 - H315

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

Eye Irrit. 2 - H319

Skin Sens. 1A - H317

Aquatic Chronic 3 - H412

**TITANIUM DIOXIDE**

**>0.5 <1.0%**

**CAS number:** 13463-67-7 **EC number:** 236-675-5

**REACH registration number:** 01-2119489379-17-XXXX

**Classification**

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

Not Classified

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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.

**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.



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**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.

**Special protective equipment for firefighters**

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

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**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.



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**SECTION 7: HANDLING AND STORAGE**

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**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.

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

**Specific end use(s)**

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

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

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**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

**TITANIUM DIOXIDE**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

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

WEL = Workplace Exposure Limit

**EPOXY RESIN (Number average MW <= 700 ) (CAS: 25068-38-6)**

**DNEL**

Industry - Inhalation; Long term systemic effects: 12.25 mg/m<sup>3</sup>

Industry - Inhalation; Short term systemic effects: 12.25 mg/m<sup>3</sup>

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



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**1,6-HEXANEDIOL DIGLYCIDYLETHER (CAS: 16096-31-4)**

**DNEL** Industry - Inhalation; Long term systemic effects: 4.9 mg/m<sup>3</sup>  
Industry - Inhalation; Short term systemic effects: 4.9 mg/m<sup>3</sup>  
Industry - Inhalation; Long term local effects: 0.44 mg/m<sup>3</sup>  
Industry - Dermal; Long term systemic effects: 2.8 mg/kg/day  
Industry - Dermal; Long term local effects: 22.6 µg/cm<sup>2</sup>  
Industry - Dermal; Short term local effects: 22.6 µg/cm<sup>2</sup>  
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

**TITANIUM DIOXIDE (CAS: 13463-67-7)**

**DNEL** Industry - Inhalation; Long term systemic effects: 10 mg/m<sup>3</sup>  
REACH dossier information

**PNEC** - Fresh water; 0.127 mg/l  
- Marine water; 1.0 mg/l  
- Intermittent release; 0.61 mg/l  
- STP; 100 mg/l  
- Sediment (Freshwater); 1000 mg/kg  
- Sediment (Marinewater); 100 mg/kg  
- Soil; 100 mg/kg  
REACH dossier information

**8.2. Exposure controls**

**Protective equipment**



**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.



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**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.

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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**

White/off-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.

**Flammability (solid, gas)**

Not applicable.

**Upper/lower flammability or explosive limits**

Not applicable.

**Other flammability**

Not available.



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**Vapour pressure**

<500 Pa @ °C

**Vapour density**

No information available.

**Relative density**

1.4 - 1.5

**Bulk density**

Not applicable.

**Solubility(ies)**

Insoluble in water

**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**

No

**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. Amides. Amines. Phenols, cresols.

**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. Amides. Amines. Phenols, cresols.

**10.4. Conditions to avoid**

Avoid contact with acids and alkalis.





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**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)**

1200

**Species**

Rat



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**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**  
EC<sub>50</sub>, 48 hours: 1.8 mg/l, Daphnia magna

**Acute toxicity - aquatic plants**  
EC<sub>50</sub>, 72 hours: 11 mg/l, Freshwater algae EC<sub>50</sub>, 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**

**12.2 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 m<sup>3</sup>/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.



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

**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**

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**Revision comments**

<b>Revision date</b>	01/09/2014
<b>Revision</b>	1
<b>SDS number</b>	HA13

**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.