

Coversheet for Overseas SDS

PLEASE ATTACH THIS COMPLETED SHEET TO THE SDS FOR:

PRODUCT:

CrackBond TE3 Part B (Hardener)

SDS DATE:

6 December 2019


Supplier:

Leviat New Zealand Limited
246D James Fletcher Drive, Otahuhu
Auckland, 2024
09 276 2236

Emergency Contacts:

National Poison Centre:	0800 764 766 (0800 POISON)
Emergency Services	Dial 111
(Fire, Ambulance, Police):	

Hazard Identification & Regulatory Requirements:

Product Name:	CrackBond TE3 Part B (Hardener)
HSNO Approval Number / HSNO Group Standard:	Surface Coatings and Colourants (Corrosive) Group Standard - HSR002658
HSNO Classes:	6.1D, 8.2B, 8.3A, 6.5A, 6.5B, 6.8B, 9.1C, 9.2D, 9.3C
Hazard Precautions and Statements including Class 9 statements where applicable: <div style="text-align: center; margin-top: 20px;">  </div>	<p>DANGER</p> <p>Harmful if swallowed.</p> <p>May be harmful in contact with skin.</p> <p>Causes severe skin burns and serious eye damage.</p> <p>May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>Suspected of damaging fertility or the unborn child (due to triethylenetetramine; diethylenetriamine).</p> <p>Harmful to aquatic life with long lasting effects.</p> <p>Harmful to the soil environment.</p> <p>Harmful to terrestrial vertebrates.</p> <p>Keep out of reach of children.</p> <p>Read label and safety data sheet before use.</p> <p>Avoid release to the environment.</p>

Note: Crystalline silica triggers the classifications 6.7A and 6.9A when present in the form of a fine respirable dust. Crystalline silica is an ingredient of this product; however, due to the physical state and intended use of the product, these classifications were not assigned to this mixture.



MATERIAL SAFETY DATA SHEET

CrackBond TE3 part B (hardener)

According to Regulation (EC) No 1907/2006, Annex II, as amended.

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

1.1. Product identifier

Product name CrackBond TE3

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

Leviat New Zealand Limited
246D James Fletcher Drive
Otahuhu
Auckland 2024
NEW ZEALAND
Tel: +64 (0) 9 276 2236
e-mail: info.nz@leviat.com

Web www.helifix.co.nz

1.4. Emergency number

Emergency Poisons and Hazardous Chemicals Information Centre
0800 POISON / 0800 764 766 (24 hours)
Police 111

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317

Environmental hazards Aquatic Chronic 3- H412

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

2.2. Label elements

Pictogram



Signal word Danger

Hazard statements

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H412 Harmful to aquatic life with long lasting effects.
H302 Harmful if swallowed.



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Precautionary statements	<p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P302+P352 IF ON SKIN: Wash with plenty of water.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	<p>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), SALICYLIC ACID, TRIETHYLENETETRAMINE, 3-AMINOPROPYLDIMETHYLAMINE</p>
Supplementary precautionary statements	<p>P261 Avoid breathing vapours.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P337+P313 If eye irritation persists: Get medical advice/ attention.</p> <p>P362+P364 Take off contaminated clothing and wash it before reuse.</p> <p>P402 Store in a dry place.</p>

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

QUARTZ SAND		20-50%
CAS number: 14808-60-7	EC number: 238-878-4	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Not Classified	-	
CRYSTALLINE SILICA		10-20%
CAS number: 14808-60-7	EC number: 238-878-4	REACH registration number: 01-2120770509-45
Classification		
STOT RE 2 - H373		
HYDROCARBONS,C-9 UNSATURATED, POLYMER WITH PHENOLS		10-20%
CAS number: 71302-91-5	EC number: 615-277-9	
Classification		
Acute Tox. 4 - H302		
2-PIPERAZIN-1-YLETHYLAMINE		10-20%
CAS number: 140-31-8	EC number: 205-411-0	REACH registration number: 01-2119471486-30
Classification		
Acute Tox. 4 - H302		
Acute Tox. 3 - H311		
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
Repr. 2 - H361		



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CrackBond TE3 part B (hardener)

STOT RE 1 - H372
Aquatic Chronic 3 - H412

STYRENATED PHENOL**5-10%**

CAS number: 61788-44-1

EC number: 262-975-0

REACH registration number: 01-2119979575-18

Classification

Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1A - H317
Aquatic Chronic 2 - H411

BENZYL ALCOHOL**1-5%**

CAS number: 100-51-6

EC number: 202-859-9

REACH registration number: 01-2119492630-38-XXXX

Classification

Acute Tox. 4 - H302
Acute Tox. 4 - H332
Eye Irrit. 2 - H319

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOL**1-5%**

CAS number: 90-72-2

EC number: 202-013-9

REACH registration number: 01-2119560597-27

Classification

Acute Tox. 4 - H302
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319

1,3-CYCLOHEXANEBIS(METHYLAMINE)**1-5%**

CAS number: 2579-20-6

EC number: 219-941-5

REACH registration number: 01-2119543741-41

Classification

Acute Tox. 4 - H302
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

Classification

Acute Tox. 4 - H302
Eye Dam. 1 - H318

TRIETHYLENETETRAMINE**<0.5%**

CAS number: 112-24-3

EC number: 203-950-6

REACH registration number: 01-2119487919-13

Classification

Acute Tox. 4 - H302
Acute Tox. 4 - H312
Skin Corr. 1B - H314
Skin Sens. 1 - H317
Aquatic Chronic 3 - H412

3-AMINOPROPYLDIMETHYLAMINE**<0.5%**

CAS number: 109-55-7

EC number: 203-680-9

REACH registration number: 01-2119486842-27-XXXX

Classification

Flam. Liq. 3 - H226



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Acute Tox. 4 - H302
Skin Corr. 1B - H314
Eye Dam. 1 - H318
Skin Sens. 1 - H317

BIS(ISOPROPYL)NAPHTHALENE

<0.5%

CAS number: 38640-62-9

EC number: 254-052-6

REACH registration number: 01-
2119565150-48

M factor (Chronic) = 1

Classification

Asp. Tox. 1 - H304
Aquatic Chronic 1 - H410

DIETHYLENETRIAMINE

<0.5%

CAS number: 111-40-0

EC number: 203-865-4

Classification

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

The Full Text for all 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.

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

Irritating to skin.

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

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 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. 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.



MATERIAL SAFETY DATA SHEET

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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

QUARTZ SAND

Long-term exposure limit (8-hour TWA): WEL 0,1 mg/m³

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

1,3-CYCLOHEXANEBIS(METHYLAMINE)

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

Sk

DIETHYLENETRIAMINE

Long-term exposure limit (8-hour TWA): WEL 1 ppm 4.3 mg/m³

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

Sk = Can be absorbed through the skin.

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

DNEL

REACH dossier information

Industry - Dermal; Short term local effects: 0.04 mg/kg/day

Industry - Inhalation; Long term systemic effects: 3.6 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 - Inhalation; Short term systemic effects: 21.4 mg/m³

PNEC

REACH dossier information

- Sediment (Freshwater); 215 mg/kg

- Sediment (Marinewater); 21.5 mg/kg

- STP; 250 mg/l

- Fresh water; 0.058 mg/l

- Soil; 42.9 mg/kg

- marine water; 0.0058 mg/l

- Intermittent release; 0.58 mg/l

STYRENATED PHENOL (CAS: 61788-44-1)

DNEL

REACH dossier information

Industry - Dermal; Long term systemic effects: 0.41666667 mg/kg/day

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

PNEC

REACH dossier information

- marine water; 0.0001371 mg/l

- Intermittent release; 0.01371 mg/l



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- Sediment (Marinewater); 43.65269484 mg/kg
- Fresh water; 0.001371 mg/l
- STP; 1.0638 mg/l
- Soil; 20.64517608 mg/kg
- Sediment (Freshwater); 43.65269484 mg/kg

BENZYL ALCOHOL (CAS: 100-51-6)

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

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

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

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

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

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

SALICYLIC ACID (CAS: 69-72-7)

DNEL REACH dossier information
Industry - Inhalation; Long term systemic effects: 16 mg/m³
Industry - Dermal; Long term systemic effects: 2 mg/kg/day



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CrackBond TE3 part B (hardener)

PNEC REACH dossier information

- Soil; 0.166 mg/kg
- Fresh water; 0.2 mg/l
- Sediment (Freshwater); 1.42 mg/kg
- marine water; 0.02 mg/l
- Intermittent release; 1 mg/l
- STP; 162 mg/l
- Sediment (Marinewater); 0.142 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

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

DNEL REACH dossier information

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

PNEC REACH dossier information

- Soil; 0.0854 mg/kg
- Sediment (Freshwater); 0.585 mg/kg
- marine water; 0.00535 mg/l
- Intermittent release; 0.535 mg/l
- Sediment (Marinewater); 0.0585 mg/kg
- Fresh water; 0.0535 mg/l
- STP; 69.5 mg/l

BIS(ISOPROPYL)NAPHTHALENE (CAS: 38640-62-9)

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

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CrackBond TE3 part B (hardener)

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	Black
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 Closed cup. Literature
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not determined.
Upper/lower flammability or explosive limits	Not determined.



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Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.4 - 1.5
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

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

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

Possibility of hazardous reactions The following materials may react with the product: Acids. Epoxides. Oxidising agents. Peroxides.

10.4. Conditions to avoid

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

Hazardous decomposition products Oxides of carbon. Oxides of nitrogen.



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CrackBond TE3 part B (hardener)

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,170.23

Acute toxicity - dermal

ATE dermal (mg/kg) 2,299.64

Acute toxicity – inhalation

ATE inhalation (vapours mg/l) 259.51

Skin sensitisation

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 exposure 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) 1,200.0

Species Rat

Acute toxicity – dermal

Acute toxicity dermal (LD₅₀ mg/kg) 10,000.0

Species Rat

2-PIPERAZIN-1-YLETHYLAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,470.0

Species Rat



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Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 866.0

Species Rabbit

ATE dermal (mg/kg) 300.0

STYRENATED PHENOLAcute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000

Species Rat

BENZYL ALCOHOLAcute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,040.0

Species Rabbit

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

Acute toxicity - inhalation

ATE inhalation (vapours mg/l) 11.0

2,4,6-TRIS(DIMETHYLAMINOMETHYL)PHENOLAcute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,169.0

Species Rat

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 1.0

Species Rat



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1,3-CYCLOHEXANEBIS(METHYLAMINE)

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 700.0
mg/kg)

Species Rat

Acute toxicity – dermal

Acute toxicity dermal 1,700.0
(LD₅₀ mg/kg)

Species Rabbit

SALICYLIC ACID

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 891.0
mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal 2,000.0
(LD₅₀ mg/kg)

Species Rat

TRIETHYLENETETRAMINE

Acute toxicity - oral

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

ATE dermal (mg/kg) 1,100.0

3-AMINOPROPYLDIMETHYLAMINE

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 1,600.0
mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal 1,200.0
(LD₅₀ mg/kg)

Species Rat

BIS(ISOPROPYL)NAPHTHALENE

Acute toxicity – oral

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

Species Rat



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SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological information on ingredients.

2-PIPERAZIN-1-YLETHYLAMINE

Acute aquatic toxicity

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

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 aquatic toxicity

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

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

BENZYL ALCOHOL

Acute aquatic toxicity

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 aquatic toxicity

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



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1,3-CYCLOHEXANEBIS(METHYLAMINE)

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC50, > 96 hours: 100 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic Invertebrates	EC ₅₀ , 48 hours: 29 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , > 96 hours: 100 mg/l, Scenedesmus subspicatus
Acute toxicity - terrestrial	EC ₅₀ , > 14 days: 1000 mg/kg, Eisenia Fetida (Earthworm)

SALICYLIC ACID

<u>Acute aquatic toxicity</u>	
Acute toxicity - fish	LC50, 48 hours: 90 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - microorganisms	EC ₅₀ , > 3 hours: 3200 mg/l, Activated sludge

TRIETHYLENETETRAMINE

<u>Acute aquatic toxicity</u>	
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	EC ₅₀ , 48 hours: 31 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 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.
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12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
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Partition coefficient	Not determined.
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12.4. Mobility in soil

Mobility	Mobile. The product is miscible with water and may spread in water systems.
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB
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12.6. Other adverse effects



MATERIAL SAFETY DATA SHEET

CrackBond TE3 part B (hardener)

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.

Waste class

The waste code classification is to be carried out according to the European Waste Catalogue (EWC).

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Transport in bulk according to Annex II of MARPOL 73/78

and the IBC Code

Not applicable.

SECTION 15: REGULATORY INFORMATION

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

EU legislation

(EU) No 2015/830

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision date

6/12/2019

Version number

1.0



MATERIAL SAFETY DATA SHEET

CrackBond TE3 part B (hardener)

SDS number HNZ12

Hazard statements in full

H226 Flammable liquid and vapour.
H302 Harmful if swallowed.
H304 May be fatal if swallowed and enters airways.
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.
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.