HELIFIX

Leviat
A CRH COMPANY

SAFETY DATA SHEET
CrackBond TE *(resin component)*

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

1.1 Product Identifier

Product name CrackBond TE *(resin component)*

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

Leviat Limited
The Mille
1000 Great West Road (10th Floor)
Brentford
London TW8 9DW

Tel: +44 (0)20 8735 5200
Fax: +44 (0)20 8735 5201
Email: sales.helifix.uk@leviat.com

Contact person sales.helifix.uk@leviat.com

1.4 Emergency telephone number

+44 (0)20 8735 5200 (Mon – Fri 09:00 – 17:00)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

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

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Pictogram

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, OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS, EPOXY PHENOL FORMALDEHYDE RESIN

Supplementary precautionary statements

P261 Avoid breathing vapour / spray.
P264 Wash contaminated skin thoroughly after handling.
P272 Contaminated work clothing should not be allowed out of the workplace.
P321 Specific treatment (see medical advice on label).
P332+P313 If skin irritation occurs: Get medical advice / attention.
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

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

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS **10-20%**
CAS number: 68609-97-2 **EC number:** 271-846-8 **REACH registration number:** 01-2119485289-22-XXXX
Classification
Skin Irrit. 2 - H315
Skin Sens. 1 - H317

EPOXY PHENOL FORMALDEHYDE RESIN **10-20%**
CAS number: 28064-14-4 **EC number:** 500-108-2
Classification
Skin Irrit. 2 - H315
Eye Irrit. 2 - H319
Skin Sens. 1 - H317

Aquatic Chronic 2 - H411
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.

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.

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.

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

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

DNEL	Industry - Inhalation; Long term systemic effects: 12.25 mg/m3 Industry - Inhalation; Short term systemic effects: 12.25 mg/m3 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

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS (CAS: 68609-97-2)

DNEL	Workers - Inhalation; Long term systemic effects: 13.8 mg/m³ Workers - Inhalation; Short term systemic effects: 29 mg/m³ Workers - Inhalation; Long term local effects: 0.98 mg/m³ Workers - Inhalation; Short term local effects: 9.8 mg/m³ Workers - Dermal; Long term systemic effects: 3.9 mg/kg/day Workers - Dermal; Short term systemic effects: 17 mg/kg/day Workers - Dermal; Long term local effects: 1.7 mg/kg/day Workers - Dermal; Short term local effects: 68 mg/kg/day REACH dossier information
PNEC	- Fresh water; 0.0072 mg/l - Marine water; 0.00072 mg/l - Intermittent release; 0.072 mg/l - STP; 10 mg/l - Sediment (Freshwater); 66.77 mg/kg - Sediment (Marinewater); 6.677 mg/kg - Soil; 80.12 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.
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.
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.
Vapour pressure	<500 Pa @ °C
Vapour density	No information available.
Relative density	Not determined.
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
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

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

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

10.4. Conditions to avoid

Conditions to avoid	Avoid contact with acids and alkalis.

10.5. Incompatible materials

Materials to avoid	Acids. Amines. Amides.

10.6. Hazardous decomposition products

Hazardous decomposition products	Oxides of carbon. Oxides of nitrogen.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Skin sensitisation

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.

EPOXY RESIN (Number average MW <= 700)

Acute toxicity - oral	
Acute toxicity oral (LD50 mg/kg)	11,400.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD50 mg/kg)	1,200.0
Species	Rat

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Acute toxicity - oral	
Acute toxicity oral (LD50 mg/kg)	5,000.0
Species	Rat
Acute toxicity - dermal	
Acute toxicity dermal (LD50 mg/kg)	4,500.0
Species	Rabbit

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

EPOXY RESIN (Number average MW <= 700)

Acute toxicity – fish	LC50, 96 hours: 2 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC_{50}, 48 hours: 1.8 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC_{50}, 72 hours: 11 mg/l, Freshwater algae EC_{50}, 96 hours: 220 mg/l, Scenedesmus subspicatus
Chronic toxicity – aquatic invertebrates	NOEC, 21 days: 0.3 mg/l, Daphnia magna

OXIRANE, MONO [(C12-14- ALKYLOXY)METHYL] DERIVS

Acute toxicity – fish	LC50, > 96 hours: 5000 mg/l, Onchorhynchus mykiss (Rainbow trout) LC0, 96 hours: 1800 mg/l, Lepomis macrochirus (Bluegill)
Acute toxicity – aquatic invertebrates	EC_{50}, 96 hours: 1 - 10 mg/l, Daphnia magna

Acute toxicity – aquatic plants	EC_{50}, 72 hours: 843 mg/l, Selenastrum capricornutum NOEC, 72 hours: 500 mg/l, Selenastrum capricornutum

12.2. Persistence and degradability

Persistence and degradability	The product is not biodegradable.

EPOXY RESIN (Number average MW <= 700)

Biodegradation	- 12% Degradation (%): 28 days

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	Not determined.

EPOXY RESIN (Number average MW <= 700)

Bioaccumulative potential	May accumulate in soil and water systems. BCF: 100 - 3000,
Partition coefficient	log Pow: 3.242 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.

EPOXY RESIN (Number average MW <= 700)

Mobility	Semi-mobile.
Adsorption/desorption coefficient	Water - Koc: 1800 - 4400 @ 25°C Estimated Value
Henry's law constant	4.93E-05 Pa m3/mol @ 25°C

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.

EPOXY RESIN (Number average MW <= 700)

Results of PBT and vPvB assessment	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. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)
Proper shipping name (IMDG)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)
Proper shipping name (ICAO)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)
Proper shipping name (ADN)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS EPOXY RESIN (Number average MW <= 700), EPOXY PHENOL FORMALDEHYDE RESIN)

14.3. Transport hazard class(es)

ADR/RID class	9
ADR/RID classification code	M6
ADR/RID label	9
IMDG class	9
ICAO class/division	9
AND class	9

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

14.6. Special precautions for user

EmS	F-A, S-F
ADR transport category	3
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

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	25/04/2022
Revision	3
SDS number	HUK3
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.