

Coversheet for Overseas SDS

PLEASE ATTACH THIS COMPLETED SHEET TO THE SDS FOR:

PRODUCT:

EpoxyPlus EX Part A (Resin)

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:	Epoxy Plus EX Part A Resin
HNSO Approval Number / HNSO Group Standard:	Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017 - HSR002670
HNSO Classes:	6.3A, 6.4A, 6.5B, 6.9B, 9.1B
Hazard Precautions and Statements including Class 9 statements where applicable: <div style="display: flex; justify-content: space-around; align-items: center;">    </div>	WARNING Causes skin irritation. May cause an allergic skin reaction May cause damage to organs through prolonged or repeated dermal exposure. Toxic to aquatic life with long lasting effects. Read label and safety data sheet before use. Avoid release to the environment. Collect spillage.



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

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 EpoxyPlus EX

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

Environmental hazards Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction.
H411 Toxic to aquatic life with long lasting effects.



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

Precautionary statements	<p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.</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>P391 Collect spillage.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Contains	reaction product: bisphenol-A-(epichlorhydrin), EPOXY PHENOL FORMALDEHYDE RESIN, REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2)
Supplementary precautionary statements	<p>P261 Avoid breathing vapour/ spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P272 Contaminated work clothing should not be allowed out of the workplace.</p> <p>P321 Specific treatment (see medical advice on this label).</p> <p>P332+P313 If skin irritation occurs: Get medical advice/ attention.</p> <p>P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.</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>

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Reaction product: bisphenol-A-(epichlorhydrin) **50-80%**

CAS number: 25068-38-6 EC number: 500-033-5

Classification

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

EPOXY PHENOL FORMALDEHYDE RESIN **20-50%**

CAS number: 9003-36-5 EC number: 500-006-8 REACH registration number: 01-2119454392-40

Classification

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

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYL)OXIRANE(1:2) **10-20%**

CAS number: 933999-84-9 EC number: 618-939-5 REACH registration number: 01-2119463471-41

Classification

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

The Full Text for all Hazard Statements are Displayed in Section 16.

Composition comments CAS 28064-14-4 = CAS 9003-36-5 (EU) CAS 933999-84-9 = CAS 16096-31-4 (RoW)



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

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.
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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 protective clothing.



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EpoxyPlus EX part A (resin)

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

reaction product: bisphenol-A-(epichlorhydrin) (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



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2) (CAS: 933999-84-9)

DNEL

Industry - Inhalation; Long term systemic effects: 4.9 mg/m³
 Industry - Inhalation; Short term systemic effects: 4.9 mg/m³
 Industry - Inhalation; Long term local effects: 0.44 mg/m³
 Industry - Dermal; Long term systemic effects: 2.8 mg/kg/day
 Industry - Dermal; Long term local effects: 22.6 µg/cm²
 Industry - Dermal; Short term local effects: 22.6 µg/cm²
 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



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 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



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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 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	1.2 - 1.3
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



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

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. 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 exposure Skin and/or eye contact.

Medical symptoms Skin irritation.

Medical considerations Skin disorders and allergies.

Toxicological information on ingredients.

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

Acute toxicity - oral

Acute toxicity oral (LD₅₀) 3,010.0
mg/kg)

Species Rat

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)



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EpoxyPlus EX part A (resin)

Acute aquatic toxicity

Acute toxicity - fish LC50, 96 hours: 2 mg/l, Oncorhynchus 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 aquatic toxicity

Chronic toxicity - aquatic invertebrates

NOEC, 21 days: 0.3 mg/l, Daphnia magna

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

Acute aquatic toxicity

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

12.2. Persistence and degradability

Persistence and degradability The product is not biodegradable.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

Biodegradation - 12% Degradation (%): 28 days

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

Biodegradation - 47% Degradation (%): 28 days
OECD 301D

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient Not determined.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

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

Partition coefficient log Pow: 3.242 Estimated Value

REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)

Bioaccumulative potential BCF: < 100, Estimated Value

Partition coefficient log Pow: -0.272 Estimated Value



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12.4. Mobility in soil

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

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

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.

Ecological information on ingredients.

reaction product: bisphenol-A-(epichlorhydrin)

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.

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

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

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



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

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

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO packing group III

ADN 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 MARPOL and the IBC Code

Transport in bulk according to Not applicable

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



MATERIAL SAFETY DATA SHEET

EpoxyPlus EX part A (resin)

Guidance

Workplace Exposure Limits EH40.

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Inventories**US - TSCA 12(b) Export Notification***REACTION PRODUCTS OF HEXANE-1,6-DIOL WITH 2-CHLOROMETHYLOXIRANE(1:2)***SECTION 16: OTHER INFORMATION****Revision date** 6/12/2019**Version number** 1.0**SDS number** HNZ8**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.