

# Safety Data Sheet

## Hazardous, Dangerous Goods

### 1. MATERIAL AND SUPPLY COMPANY IDENTIFICATION

Product name: **E3 FLOWABLE Epoxy Resin Part A**

Recommended use: Industrial chemical

**Supplier:** Tremco CPG Australia Pty Ltd  
**ABN:** 25 000 024 064  
**Street Address:** 12/4 Southridge Street  
Eastern Creek NSW 2766  
**Telephone:** 02 9638 2755  
**Facsimile:** 02 9638 2955

Emergency Telephone number: **02 9037 2994 (Aus) +1 703-741-5500 (Worldwide)**

### 2. HAZARDS IDENTIFICATION

This material is hazardous according to the criteria of Safe Work Australia GHS 7.



#### Signal Word

Danger

#### Hazard Classifications

Skin Corrosion/Irritation - Category 2  
Eye Damage/Irritation - Category 2A  
Specific Target Organ Toxicity (Repeated Exposure) - Category 1  
Acute Hazard to the Aquatic Environment - Category 2  
Chronic Hazard to the Aquatic Environment - Category 2

#### Hazard Statements

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

#### Prevention Precautionary Statements

P102 Keep out of reach of children.  
P103 Read carefully and follow all instructions.  
P260 Do not breathe dust, fume, gas, mist, vapours or spray.  
P264 Wash hands, face and all exposed skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing including eye/face protection.

#### Response Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.  
P302+P352 IF ON SKIN: Wash with plenty of water and soap.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P314 Get medical advice/attention if you feel unwell.

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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.

## Storage Precautionary Statement

Not allocated

## Disposal Precautionary Statement

P501 Dispose of contents/container in accordance with local, regional, national and international regulations.

Poison Schedule: S5. Caution

## DANGEROUS GOOD CLASSIFICATION

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Dangerous Goods Class: 9

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077 or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;

- (a) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or
- (b) IBCs.

## 3. COMPOSITION INFORMATION

CHEMICAL ENTITY	CAS NO	PROPORTION
Bisphenol-A epoxy resin	25068-38-6	<70 % (v/v)
Bisphenol F Epoxy Resin	28064-14-4	<20 % (v/v)
Aliphatic glycidal ether	68609-97-2	<20 % (v/v)
Ingredients determined to be Non-Hazardous		Balance
		100%

## 4. FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 131 126, New Zealand 0800 764 766).

**Inhalation:** Using proper respiratory protection, immediately remove the affected victim from exposure. Administer artificial respiration if breathing is stopped. Keep at rest. Seek immediate medical attention.

**Skin Contact:** Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

**Eye contact:** Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

**Ingestion:** If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

**PPE for First Aiders:** Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make

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a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

**Notes to physician:** Treat symptomatically. First Aid facilities. Provide eye baths and safety showers. Medical Attention. Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

## 5. FIRE FIGHTING MEASURES

**Hazchem Code:** •3Z

**Suitable extinguishing media:** If material is involved in a fire use alcohol resistant foam or dry agent (carbon dioxide, dry chemical powder).

**Specific hazards:** Combustible material.

**Fire fighting further advice:** On burning or decomposing may emit toxic fumes. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing if risk of exposure to vapour or products of combustion or decomposition.

## 6. ACCIDENTAL RELEASE MEASURES

### SMALL SPILLS

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

### LARGE SPILLS

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately. Major Land Spill  Eliminate sources of ignition.  Warn occupants of downwind areas of possible fire and explosion hazard.  Prevent liquid from entering sewers, watercourses, or low-lying areas.  Keep the public away from the area.  Shut off the source of the spill if possible and safe to do so.  Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.  Take measures to minimise the effect on the ground water.  Contain the spilled liquid with sand or earth.  Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.  Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.  See “First Aid Measures” and “Stability and Reactivity” Major Water Spill  Eliminate any sources of ignition.  Warn occupants and shipping in downwind areas of possible fire and explosion hazard.  Notify the port or relevant authority and keep the public away from the area.  Shut off the source of the spill if possible and safe to do so.  Confine the spill if possible.  Remove the product from the surface by skimming or with suitable absorbent material.  Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.  See “First Aid Measures” and “Stability and Reactivity”.

**Dangerous Goods - Initial Emergency Response Guide No:** 47

## 7. HANDLING AND STORAGE

**Handling:** This product may fuel a fire in progress. Keep containers closed and handle with care. Employ good industrial hygiene practices in relation to this product. This product is a skin sensitiser: avoid over-exposure through contact with vapour, inhalation exposure routes, and contact with product.

**Storage:** Store in a cool, dry place away from direct sunlight. This product may fuel a fire in progress. Protect containers from damage and check regularly for leaks.

This material is classified as a Class 9 Miscellaneous Dangerous Good as per the criteria of the "Australian Code

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for the Transport of Dangerous Goods by Road & Rail" and/or the "New Zealand NZS5433: Transport of Dangerous Goods on Land" and must be stored in accordance with the relevant regulations.

This material is a Scheduled Poison Schedule 5 (Caution) and must be stored, maintained and used in accordance with the relevant regulations.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**National occupational exposure limits:** No value assigned for this specific material by Safe Work Australia.

**Biological Limit Values:** As per the "National Model Regulations for the Control of Workplace Hazardous Substances (Safe Work Australia)" the ingredients in this material do not have a Biological Limit Allocated.

**Engineering Measures:** Natural ventilation should be adequate under normal use conditions.

**Personal Protection Equipment:** SAFETY SHOES, OVERALLS, GLOVES, SAFETY GLASSES, RESPIRATOR.

Personal protective equipment (PPE) must be suitable for the nature of the work and any hazard associated with the work as identified by the risk assessment conducted.

Wear safety shoes, overalls, gloves, safety glasses, respirator. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Available information suggests that gloves made from should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storing or re-using.

### RECOMMENDATIONS FOR CONSUMER USE:

**Engineering Controls:** Ventilation The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion-proof ventilation equipment. **Personal Protective Equipment** **Respiratory Protection:** Where concentrations in air may exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type "A" filter material is considered suitable for this product. **Eye Protection:** Always use safety glasses or a face shield when handling this product. **Skin/ Body Protection:** Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.

**Hygiene measures:** Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or smoke. Wash hands prior to eating, drinking or smoking. Avoid contact with clothing. Avoid eye contact and skin contact. Avoid inhalation of vapour, mist or aerosols. Ensure that eyewash stations and safety showers are close to the workstation location.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Material Family:** Resin  
**Form:** Clear Liquid  
**Colour:** Clear, yellow liquid

**Solubility in water:** Negligible  
**Density:** 1.12g/ml @ 15°C  
**Vapour Pressure:** No data available  
**Flash Point (°C):** > 150°C  
**Boiling Point/Range (°C):** > 150°C  
**Viscosity:** 700 – 1100 cSt  
**Explosive properties:** No data available  
**% Volatile by Volume:** 100%

Product Name: E3 FLOWABLE Epoxy Resin Part A

Reference No:

Issued: 2023-06-02

Version: 1.1

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(Typical values only - consult specification sheet)

N Av = Not available, N App = Not applicable

## 10. STABILITY AND REACTIVITY

**Chemical stability:** Stable at room temperature and pressure

**Conditions to avoid:** Sources of heat and ignition, open flames.

**Incompatible materials:** Natural Rubber, Butyl Rubber, EPDM, Polystyrene

**Hazardous decomposition products:** Organic complexes and toxic gases will be released on partial burning and oxidation

**Hazardous reactions:** Oxidising agents, strong alkalis, strong acids, and amines. Hazardous Polymerisation: Will not occur

## 11. TOXICOLOGICAL INFORMATION

No adverse health effects expected if the product is handled in accordance with this Safety Data Sheet and the product label. Symptoms or effects that may arise if the product is mishandled and overexposure occurs are:

### Acute Effects

**Inhalation:** Vapours are irritating to the respiratory tract and mists of this product, although unlikely, may result in lung damage in large quantities

**Skin contact:** This product will adhere to the skin and defat the skin. Avoid contact with skin.

**Ingestion:** This product will cause mild discomfort on swallowing, and likely gastric disturbances.

**Eye contact:** This product will be irritating to eye resulting in swelling, redness, tearing, and prolonged discomfort.

### Acute toxicity

**Inhalation:** This material has been classified as not hazardous for acute inhalation exposure. Acute toxicity estimate (based on ingredients):  $LC_{50} > 20.0$  mg/L for vapours or  $LC_{50} > 5.0$  mg/L for dust and mist.

**Skin contact:** This material has been classified as not hazardous for acute dermal exposure. Acute toxicity estimate (based on ingredients):  $LD_{50} > 2,000$  mg/Kg bw

Bisphenol A  $LD_{50}$  (Rabbit):  $> 20$  ml/kg

Bisphenol A  $LD_{50}$  (Rat):  $> 1200$  mg/kg

**Ingestion:** This material has been classified as not hazardous for acute ingestion exposure. Acute toxicity estimate (based on ingredients):  $LD_{50} > 2,000$  mg/Kg bw

Bisphenol A  $LD_{50}$  (Rat): 30 000 mg/kg

**Corrosion/Irritancy:** Eye: this material has been classified as a Category 2A Hazard (reversible effects to eyes). Skin: this material has been classified as a Category 2 Hazard (reversible effects to skin).

**Sensitisation:** Inhalation: this material has been classified as not a respiratory sensitiser. Skin: this material has been classified as not a skin sensitiser.

**Aspiration hazard:** This material has been classified as not an aspiration hazard.

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**Specific target organ toxicity (single exposure):** This material has been classified as not a specific hazard to target organs by a single exposure.

## Chronic Toxicity

**Mutagenicity:** This material has been classified as not a mutagen.

**Carcinogenicity:** This material has been classified as not a carcinogen.

**Reproductive toxicity (including via lactation):** This material has been classified as not a reproductive toxicant.

**Specific target organ toxicity (repeat exposure):** This material has been classified as a Category 1 Hazard. Prolonged or repeated contact will cause defatting resulting in dryness and cracking and irritant contact dermatitis. Persons with pre-existing skin or respiratory conditions will be sensitive to this product. Long term, repeated exposure may affect the central nervous system.

## 12. ECOLOGICAL INFORMATION

Avoid contaminating waterways.

**Acute aquatic hazard:** This material has been classified as a Category Acute 2 Hazard. Acute toxicity estimate (based on ingredients):  $> 1 \leq 10$  mg/L

Bisphenol A 24hr EC50 (Daphnia magna): 1.1 – 3.6 mg/L

Bisphenol A 96hr LC50 (rainbow trout): 1.5 to 7.7 mg/L

**Long-term aquatic hazard:** This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or  $BCF \geq 500$  and/or  $\log K_{ow} \geq 4$ .

**Ecotoxicity:** No information available.

**Persistence and degradability:** This product is not expected to meet the biodegradability criteria.

**Bioaccumulative potential:** No information available.

**Mobility:** This product is not expected to be mobile

## 13. DISPOSAL CONSIDERATIONS

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain fumes and vapours that are flammable and harmful. Ensure that empty packaging is allowed to dry. This product is NOT suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product must be disposed as chemical waste in accordance with the local authority.

## 14. TRANSPORT INFORMATION

### ROAD AND RAIL TRANSPORT

Classified as Dangerous Goods by the criteria of the "Australian Code for the Transport of Dangerous Goods by Road & Rail" and the "New Zealand NZS5433: Transport of Dangerous Goods on Land".

Australian Special Provisions; AU01: Environmentally Hazardous Substances meeting the description of UN 3077

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or UN 3082 are not subject to this Code (ADG 07) when transported by road or rail in;  
(c) packagings that do not incorporate a receptacle exceeding 500 Kg (L); or  
(d) IBCs.



**UN No:** 3082  
**Dangerous Goods Class:** 9  
**Packing Group:** III  
**Hazchem Code:** •3Z  
**Emergency Response Guide No:** 47  
**Limited Quantities** 5 L

**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

**Segregation Dangerous Goods:** Not to be loaded with explosives (Class 1). Note 1: Materials that are fire risks are incompatible with oxidising agents (Class 5.1) or organic peroxides (Class 5.2). Exemptions may apply.

## MARINE TRANSPORT

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea. This material is classified as a Marine Pollutant (P) according to the International Maritime Dangerous Goods Code.



**UN No:** 3082  
**Dangerous Goods Class:** 9  
**Packing Group:** III  
**Limited Quantities:** 5 L  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## AIR TRANSPORT

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air.



**UN No:** 3082  
**Dangerous Goods Class:** 9  
**Packing Group:** III  
**Limited Quantities:** 30 kg G  
**Proper Shipping Name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

## 15. REGULATORY INFORMATION

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**This material is not subject to the following international agreements:**

Montreal Protocol (Ozone depleting substances)  
The Stockholm Convention (Persistent Organic Pollutants)  
The Rotterdam Convention (Prior Informed Consent)  
Basel Convention (Hazardous Waste)  
International Convention for the Prevention of Pollution from Ships (MARPOL)

**This material/constituent(s) is covered by the following requirements:**

The Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) established under the Therapeutic Goods Act (Commonwealth): S5. Caution.

AICIS Status: All components of this product are listed on or exempt from the Australian Inventory of Industrial Chemicals (AIIC).

## 16. OTHER INFORMATION

Reason for issue: Product name change

This information was prepared in good faith from the best information available at the time of issue. It is based on the present level of research and to this extent we believe it is accurate. However, no guarantee of accuracy is made or implied and since conditions of use are beyond our control, all information relevant to usage is offered without warranty. The manufacturer will not be held responsible for any unauthorised use of this information or for any modified or altered versions.

If you are an employer it is your duty to tell your employees, and any others that may be affected, of any hazards described in this sheet and of any precautions that should be taken.

Safety Data Sheets are updated frequently. Please ensure you have a current copy.