



# ESA EPOXY RESIN

## MATERIAL SAFETY DATA SHEET

LAST REVISED: 25 AUGUST 2026

### SUBSTANCE/PREPARATION AND COMPANY IDENTIFICATION

**Product Name:** Epoxy Resin

**Recommended Use:** Art and crafts, decoration, electronic components potting, coating, flooring, carbon fiber products

**Company:**

Warrior Pte Ltd

Contact address:

17 Marsiling Industrial Estate Road 1 #01-11

Singapore 739279

Telephone: +65 6364 5100

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### COMPOSITION/INFORMATION ON INGREDIENTS

| Component       | CAS No.    | % by weight | Classification |
|-----------------|------------|-------------|----------------|
| Epoxy Resin     | 38891-59-7 | 64%         | Not classified |
| Benzyl Alcohol  | 100-51-6   | 9%          | Harmful        |
| Polyether Amine | 9046-10-0  | 24%         | Not classified |

### HAZARDOUS IDENTIFICATION

**Classification:**

Not classified as hazardous under Regulation (EC) No. 1272/2008 and EC directives 67/548/EEC or 1999/45/EC

**Label Elements:** No hazard pictogram or signal word required.

**Other Hazards:** Contains no PBT or vPvB substances  $\geq 0.1\%$

**Potential Acute Health Effects:**

- Eyes: Mildly irritating.
- Skin: Irritating with prolonged/repeated contact.
- Inhalation: May irritate upper respiratory tract.
- Ingestion: Low oral toxicity, but may cause GI irritation.

**WARRIOR PTE LTD**

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### FIRST-AID MEASURES

- **Eye Contact:** Flush with plenty of water for at least 15 minutes; remove contact lenses; seek medical attention.
- **Skin Contact:** Wash with soap and water; seek medical attention if symptoms persist.
- **Inhalation:** Move to fresh air; seek medical attention if symptoms develop.
- **Ingestion:** Seek medical attention immediately.

### FIRE-FIGHTING MEASURES

- **Extinguishing Media:** Dry chemical, CO<sub>2</sub>, alcohol foam, water fog
- **Special Hazards:** Vapors may travel and ignite; containers may rupture if heated.
- **Firefighter Advice:** Wear self-contained breathing apparatus and full protective gear.

### ACCIDENTAL RELEASE MEASURES

- **Personal Precautions:** Evacuate area, use non-sparking tools, ventilate well.
- **Environmental Precautions:** Prevent from entering drains or environment.
- **Clean-Up:** Absorb with bentonite, vermiculite, or inert material; collect with non-sparking tools into metal containers for disposal; clean residue with appropriate solvent.

### HANDLING AND STORAGE

#### Handling:

- Avoid inhalation, skin, and eye contact.
- Use PPE.
- Keep away from heat/open flames.

#### Storage:

- Store in a cool, well-ventilated area.
- Do not store above 50°C.
- Keep container tightly closed.
- Store away from oxidizers and acids.

### EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Engineering Controls:** Use local exhaust ventilation to maintain exposure below limits.

#### Personal Protective Equipment:

- **Eye Protection:** Safety glasses with side shields or face shield.
- **Skin Protection:** Gloves, coveralls, boots, or lab coat.
- **Respiratory:** Not needed under normal use; if vapors/mists form, use NIOSH/MSHA-approved respirator.

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### PHYSICAL AND CHEMICAL PROPERTIES

| Property            | Value                       |
|---------------------|-----------------------------|
| Appearance          | Transparent liquid          |
| Odor                | Slight amine smell          |
| Density             | 1.02–1.10 g/cm <sup>3</sup> |
| Viscosity (at 25°C) | 10–20,000 cps               |
| Boiling Point       | Not applicable              |
| Solubility in Water | Not applicable              |
| Flash Point         | Not provided                |
| pH                  | Not applicable              |
| Flammability        | Vapors may ignite           |

### STABILITY AND REACTIVITY

- Stability: Chemically stable under normal conditions
- Polymerization: Will not occur
- Incompatibilities: Oxidizing agents such as chlorine or chromic acid
- Hazardous Decomposition Products: None under normal use

### TOXICOLOGICAL INFORMATION

- Acute Effects: May cause irritation to skin, eyes, and respiratory tract
- Chronic Toxicity: None known
- Sensitization: May occur with repeated or prolonged exposure
- Carcinogenic, Mutagenic, Teratogenic Effects: None known

### ECOLOGICAL INFORMATION

- Ecotoxicity: No data available, but not expected to cause harm
- Persistence/Degradability: No data available
- Bioaccumulation: No data available

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### DISPOSAL CONSIDERATIONS

- Product: Dispose in accordance with local, regional, or national regulations.
- Packaging: Dispose per official guidelines; do not reuse contaminated containers.

### TRANSPORTATION INFORMATION

- UN Number: None
- Proper Shipping Name: Not dangerous goods
- Hazard Class: None
- Packing Group: None
- Marine Pollutant: No

### REGULATORY INFORMATION

- EU Regulations: Components listed in the EU TSCA inventory
- Restrictions: For use by technically qualified personnel
- Other: Not subject to specific restrictions under current EU legislation

### OTHER INFORMATION

- Any other intended applications should be discussed with the manufacturer.
- If you have any queries relating to this MSDS, its contents or any other product safety related questions, please write to the following e-mail address: [war99@singnet.com.sg](mailto:war99@singnet.com.sg)
- The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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