

1. Identification

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|------------------------------------|---|
| Product Name: | ECS Resin |
| Recommended use: | Resin component for two pack epoxy system. |
| Supplier: | Uroxsys Ltd |
| Street Address: | 2 Stonedon Drive, East Tamaki, Auckland |
| Telephone Number: | +64 9 2740808 (8.00am to 5.00pm, Monday to Friday) |
| Emergency Telephone: | After hours phone CHEMCALL 0800 243622 (or +64 4 9179888) |
| National Poison Information Centre | 0800 POISON (764766) |
| Date of issue | 7 March 2025 |

2. Hazards identification

GHS classification of the substance/mixture:

Classified as Hazardous according to Hazardous Substances (Hazard Classification) Notice 2020

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods.



Skin irritation Category 2, Eye irritation Category 2, Skin sensitisation Category 1, Aquatic toxicity (chronic)

EPA Approval: HSR002670.

Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020
6.3A, 6.4A, 6.5B, 9.1B

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 – Prevention:

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary Statements – Response:

P302+P352 IF ON SKIN: Wash with plenty of soap and 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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362 Take off contaminated clothing and wash before reuse
P391: Collect spillage.

Precautionary Statements – Storage:

Store in cool dry place. Keep containers closed when not in use

Precautionary Statements – Disposal:

P501: Do not contaminate storm water with product or product washing. Do not pour product down the drain. Unwanted product should reacted with appropriate quantity of hardener and be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection. Empty containers should be left open in a well-ventilated area to dry out. When dry, recycle the container via recycling programmes. Disposal of empty paint containers via domestic recycling programmes may differ between local authorities. Check with your local council first.

3. Composition/information on ingredients

| Material | CAS No | % |
|-------------------------------------|-----------|---------|
| 2,2-Bis(4'-glycidyoxyphenyl)propane | 1675-54-3 | > 60 |
| Benzyl alcohol | 100-51-6 | 10 – 30 |

4. First-aid measures

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

Eye contact Do not rub your eyes. Immediately flush eyes with plenty of water for at least 15 minutes and call a doctor/physician. Go to the hospital immediately if symptoms(flare, irritate) occur. Remove contact lenses if worn.

Skin contact Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash contaminated clothing thoroughly before re-using. Go to the hospital immediately if symptoms(flare, irritate) occur. Wash thoroughly after handling.

Inhalation: Take specific treatment if needed. When exposed to large amounts of steam and mist, move to fresh air.

Ingestion: Please be advised by doctor whether induction of vomit is demanded or not. Rinse your mouth with water immediately.

Notes to physician - Notify medical personnel of contaminated situations and have them take appropriate protective measures.

5. Fire-fighting measures

Suitable (Unsuitable) extinguishing media: Avoid use of water jet for extinguishing. Use Dry chemical, carbon dioxide, regular foam extinguishing agent, spray.

Specific hazards arising from the chemical: Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects.

Fire-fighting advice :Avoid inhalation of materials or combustion by-products.

Cool containers with water until well after fire is out.

Do not approach the area surrounded by fire until it is extinguished.

Major fire may require withdrawal, allowing the object itself to burn. Keep unauthorized personnel out.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Do not touch spilled material. Stop leak if you can do it without risk. Handle the damaged containers or spilled material after wearing appropriate protective equipment. Move container to safe area from the leak area. Must work against the wind and evacuate the upwind people. Remove all sources of ignition.

Environmental precautions: If large amounts have been spilled, inform the relevant authorities. Prevent runoff and contact with waterways, drains or sewers.

Methods and materials for containment and cleaning up: Use appropriate container for disposal of spilled material collected. Dike for later disposal. Disposal of waste shall be in compliance with Local regulations.

Large spill : Stay upwind and keep out of low areas. Dike for later disposal.

7. Handling and storage

Precautions for safe handling:

Avoid contact with incompatible materials. Avoid direct physical contact. Comply with all applicable laws and regulations for handling. Use only in a well-ventilated place. Do not handle until all safety precautions have been read and understood.

Conditions for safe storage, including any incompatibilities:

Avoid direct sunlight. Check regularly for leaks. Do not apply any physical shock to container. Do not apply direct heat. Do not use damaged containers.

8. Exposure controls/personal protection

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|--------------------------------|---|
| Occupational Exposure Limits: | No value assigned for this specific material by Worksafe NZ. |
| Engineering Control Measures: | Ensure ventilation is adequate. |
| Biological Limit Values: | No biological limits allocated |
| Personal Protective Equipment: | Wear overalls, chemical goggles and rubber gloves. Use with adequate ventilation. If inhalation risk exists wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use. |

9. Physical and chemical properties

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|---|----------------------------------|
| Physical state: | Clear Liquid |
| Odour: | Slight aromatic |
| Odour Threshold: | not established |
| pH: | 6-8 |
| Melting/Freezing point: | not established |
| Boiling point/boiling range: | >200 °C |
| Flash point: | 101 °C |
| Flammability (solid, gas): | not applicable |
| Upper/lower flammability or explosive limits: | not established |
| Vapour pressure: | 4.6 x 10 ⁻⁸ Pa (25°C) |
| Vapour density: | not established |
| Specific gravity: | 1.137 |
| Solubility: | Insoluble in water. |
| Partition coefficient (n-octanol/water): | not established |
| Auto-ignition temperature: | not applicable |
| Decomposition temperature: | not established |
| Viscosity: | not established |

Particle characteristics: not established

10. Stability and reactivity

Stability: Stable under normal conditions
Conditions to avoid: Avoid : Accumulation of electrostatic charges, heating, flames and hot surfaces. Avoid contact with incompatible materials and condition.
Incompatible materials: Strong oxidizing agents.
Hazardous decomposition products: May emit flammable vapour if involved in fire.

11. Toxicological information

Data sourced from raw material SDSs and/or CCID.

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:

Ingestion: Swallowing can result in nausea, vomiting, diarrhea and abdominal pain.

Eye contact: Irritating to eyes.

Skin contact: Irritating to skin. Has caused allergic skin reaction in humans.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways) .
Prolonged or repeated exposure may cause skin sensitization.

Acute Toxicity:

No LD50 data available for the product.

However, for constituent: 2,2-Bis(4'-glycidyoxyphenyl)propane

Oral LD50 11,300 / rat, Dermal LD50 >23,200 / Rabbit

Benzyl alcohol: Oral LD50 (rabbit) 1040 mg/kg, Dermal LD50 (rabbit) 2000 mg/kg

Skin Corrosion/Irritation: This material has been classified as a Skin irritation, category 2 -Substances that are irritating to the skin.

Eye Corrosion/Irritancy: This material has been classified as Eye irritation, category 2 -Substances that are irritating to the eye.

Sensitisation:

Inhalation: Not classified.

Skin: this material has been classified Skin sensitisation Category 1 -Substances that are contact sensitisers.

Mutagenicity: Not classified

Carcinogenicity: Not classified

Reproductive toxicity (including via lactation): Not classified

Specific target organ toxicity (single exposure): Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard: Not classified

12. Ecological information

Avoid contaminating waterways.

Ecotoxicity:

2,2-Bis(4'-glycidyoxyphenyl)propane:

Fish: LC50 1.5 mg/L 96hr *Salmo gairdneri*

Crustaceans: EC50 1.7 mg/L 48hr *Daphnia magna*

Algae: EC50 9.4 mg/L 72hr Scenedesmus capricornutum, 4.2 mg/L 72h
Benzyl alcohol:
Fish: LC50 460 mg/L 96hr
Daphnia: EC50 230 mg/L 48hr Daphnia magna
Algae: EC50 770 mg/L 72hr
Bacteria: EC50 (aquatic micro organisms) 390 mg/L/24h

Persistence and degradability:

2,2-Bis(4'-glycidyoxyphenyl)propane: log Kow 3.84 (estimate)

Bioaccumulative potential:

2,2-Bis(4'-glycidyoxyphenyl)propane: Log BCF 1.11 ± 0.75, BCF 31

Biodegradation: : (%) 28 day

Not readily biodegradable. Has the potential to bioaccumulate.

Mobility in soil: Not available

Other adverse effects: Not available

13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by an approved agent.

Empty container:

Do not contaminate storm water with product or product washing. Do not pour product down the drain. Unwanted product should reacted with appropriate quantity of hardener and be brushed out on newspaper, allowed to dry and then disposed of via domestic waste collection. Empty containers should be left open in a well-ventilated area to dry out. When dry, recycle the container via recycling programmes. Disposal of empty paint containers via domestic recycling programmes may differ between local authorities. Check with your local council first.

14. Transport information

Classified as Dangerous Goods for transport according to the New Zealand Standard NZS 5433: 2020 Transport of Dangerous Goods.



Marine Pollutant

Road and Rail Transport

Classified as Dangerous Goods by NZS 5433 Transport of Dangerous Goods on Land

UN No.: 3082

Class: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN)

Hazchem: 2X

Packing Group: III

Marine Transport

Classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by sea.

UN No.: 3082

Class: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN)

Packing Group: III

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

Class: 9

Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, NOS (EPOXY RESIN)

Packing Group: III

15. Regulatory information

EPA Approval: HSR002670.

Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

Certified Handler : Not required

Tracking: Not required

All ingredients are on the New Zealand Inventory of Chemicals (NZIoC), or exempt.

16. Other information

This SDS summarises to our best knowledge at the date of issue, the chemical health and safety hazards of the material and general guidance on how to safely handle the material in the workplace. Since Uroxsys Limited cannot anticipate or control the conditions under which the product may be used, each user must, prior to usage, assess and control the risks arising from its use of the material.

If clarification or further information is needed, the user should contact Uroxsys Limited at the contact details on page 1.

While Uroxsys Ltd believes that the information contained herein is based on data considered accurate, no warranty or representation is expressed or implied for which Uroxsys Ltd assumes legal responsibility.

This version replaces all previous versions.

Glossary

EPA: Environmental Protection Authority (NZ)

WES: NZ Work Exposure Standard

TWA: Time Weighted Average

STEL: Short Term Exposure Limit

CCID: Chemical Classification & Identification Database (EPA)

END OF SDS