

Safety Data Sheet



1. Identification

Product Name:	ECS Resin
Other Names:	
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	1 st September 2022

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.



Eye irritation Category 2, Skin sensitisation Category 1, Aquatic toxicity (chronic) Category 2, Hazardous to soil organisms

EPA Approval: HSR002670.

Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2020

6.1E (D), 6.4A, 6.5B, 9.1B, 9.2C

Signal Word:

WARNING

Hazard Statements:

H319: Causes serious eye irritation.

H317: May cause an allergic skin reaction.

H411: Toxic to aquatic life with long lasting effects.

H423: Harmful to the soil environment.

Precautionary Statements – Prevention:

P102: Keep out of reach of children.

P103: Read label before use.

P210: Keep away from heat/sparks/open flame/hot surfaces – No smoking

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

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

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

Precautionary Statements – Response:

P101: If medical advice is needed, have product container or label at hand.

P312: Call a POISON CENTER or doctor/physician if you feel unwell.

P304+P312: IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313: If eye irritation persists: Get medical advice/attention.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P333+P313: If skin irritation or rash occurs: Get medical advice/attention.

P363: Wash contaminated clothing 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	%
Bisphenol A/epichlorohydrin	25085-99-8	> 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.

Ingestion: If swallowed, do not induce vomiting. Seek immediate medical assistance. Begin artificial respiration if breathing has stopped. Use mouth to nose rather than mouth to mouth.

Inhalation: Remove victim from area of exposure. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep

warm. Keep at rest until fully recovered. If patient finds breathing difficult and develops a bluish discolouration of the skin (which suggests a lack of oxygen in the blood - cyanosis), ensure airways are clear of any obstruction and have a qualified person give oxygen through a face mask. Apply artificial respiration if patient is not breathing. Get to a hospital or doctor quickly.

Skin Contact: If skin contact occurs, immediately remove contaminated clothing and wash skin thoroughly using soap if available. If irritation occurs seek medical advice.

Eye Contact: Immediately flush eyes with water for at least 15 minutes and see a doctor.

Notes to physician: Treat symptomatically. If skin sensitization has developed and causal relationship has been confirmed, further exposure should not be allowed.

5. Fire-fighting measures

Hazards from combustion: Not classified as flammable but will burn. On burning may emit toxic fumes, including those of hydrogen chloride and oxides of carbon.

Fire-fighting advice: Fire fighters to wear self-contained breathing apparatus and suitable protective clothing. Keep adjacent containers cool by spraying with water.

Suitable Extinguishing Media: Carbon dioxide, dry chemical, foam or water fog.

Hazchem Code 2X

6. Accidental release measures

Emergency procedures: If contamination of sewers or waterways has occurred advise local emergency services.

Methods for containment & clean up: Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin & eye contact. Wipe up with rag or absorbent paper.

For large spills: Wear protective equipment to prevent skin and eye contamination and inhalation of vapours. Contain - prevent runoff into drains and waterways. Use absorbent material (sand or earth). Collect and seal in properly labeled containers for disposal.

7. Handling and storage

Handling advice: Avoid skin and eye contact and breathing in vapours.

Storage advice: Keep container tightly closed and dry. Store at ambient temperatures. Store away from foodstuffs.

8. Exposure controls/personal protection

Occupational Exposure Limits: No value assigned for this specific material by Worksafe NZ.

Engineering Control Measures: Ensure ventilation is adequate.

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

Physical state:	Clear liquid
Solubility in water:	Negligible
Specific Gravity:	1.1
Flash Point (°C):	101°C
Flammability Limits (%):	1.3-13
Boiling Point/Range (°C):	>200°C
Colour	Pale yellow

10. Stability and reactivity

Stability:	Stable at normal temperatures and storage conditions. Reacts with strong oxidizing agents.
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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:

Ingestion:	Swallowing can result in nausea, vomiting, diarrhea and abdominal pain.
Eye contact:	Irritating to eyes.
Skin contact:	Slightly irritating to skin. Has caused allergic skin reaction in humans.
Inhalation:	Material may be irritant to the mucous membranes of the respiratory tract (airways)
Long Term Effects:	Prolonged or repeated exposure may cause skin sensitization.
Toxicological Data:	No LD50 data available for the product. However, for constituent Bisphenol A/epichlorhydrin: Oral LD50 (rat) >5000 mg/kg, Dermal LD50 (rabbit) >20000 mg/kg Benzyl alcohol: Oral LD50 (rabbit) 1040 mg/kg, Dermal LD50 (rabbit) 2000 mg/kg

12. Ecological information

Avoid contaminating waterways. Not readily biodegradable. Has the potential to bioaccumulate. If product enters soil, it will be mobile and may contaminate groundwater.

Bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)

Fish: Acute LC50 1.3 mg/l/96 h, Acute EC50 2.1 mg/l/48h, Daphnia sp.

Acute LC50 > 11 mg/l/72h -Aquatic plants -Algae

Benzyl alcohol:

Slightly harmful in the aquatic environment or are otherwise designed for biocidal action

LC50, *Lepomis macrochirus* (Fish, fresh water), 96hr, 10 mg/l, *Daphnia magna* (Water flea), 24hr, 55 mg/l
Ecotoxic in soil environment: EC50, *Photobacterium phosphoreum* (Bacteria). 5 minutes, 50mg/l

13. Disposal considerations

Refer to Waste Management Authority. Advise flammable nature. 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 be 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.



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

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.

END OF SDS