



Material Safety Data Sheet

1. Identification of the substance/mixture and supplier

Product Name: **ECS Resin**

Recommended use: Epoxy resin

Supplier: Uroxsys Ltd
Street Address: 2 Stonedon Drive, East Tamaki, Auckland
Telephone Number: +64 9 2740808
Facsimile: +64 9 2740500
Emergency Telephone: After hours phone 0800 867666 (or 09 3034580), quote reference: Uroxsys Helpline
ERMA Approval: HSR002670

2. Hazards identification

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001
Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land.

Subclass 6.3 Category A - Substances that are irritating to the skin
Subclass 6.4 Category A - Substances that are irritating to the eye
Subclass 6.5 Category B - Substances that are contact sensitisers
Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment

Risk phrases: R20/22 Harmful by inhalation and if swallowed
R36/38 Irritating to eyes and skin
R43 May cause sensitisation by skin contact.

Safety Phrases S24/25 Avoid contact with skin and eyes
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28 After contact with skin, wash immediately with plenty of soap and water.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

3. Composition/information on hazardous ingredients

Bisphenol A/epichlorohydrin	25085-99-8	>60%	R36/38,R43,R51/53
Benzyl alcohol	100-51-6	10-30%	R20/22

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

Specific Hazards: 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:

For small spills: 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 the New Zealand Occupational Safety and Health Service (OSH).

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

10. Stability and reactivity

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

Hazardous decomposition products: Not expected to form any during normal storage.

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, diarrhoea 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

12. Ecotoxicological information

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

Acute toxicity – fish; Toxic, 1>LC/EC/IC 50 <= 10 mg/l

13. Disposal considerations

Incineration by an approved agent. Dispose of material through a licensed waste contractor.

14. Transport information

Road and Rail Transport

Classified as Dangerous Goods by NZS 5433:1999 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

Classified as hazardous according to criteria in the HS (Minimum Degrees of Hazard) Regulations 2001

Subclass 6.3 Category A - Substances that are irritating to the skin

Subclass 6.4 Category A - Substances that are irritating to the eye

Subclass 6.5 Category B - Substances that are contact sensitisers

Subclass 9.1 Category B - Substances that are ecotoxic in the aquatic environment

16. Other information

This MSDS 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.

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