

Safety Data Sheet



1. Identification of the substance/mixture and supplier

Product Name: ECS LA 6337 Hardener
Other Names:
Recommended use: Part B of two pack epoxy resin 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)
Facsimile: +64 9 2740500
Emergency Telephone: After hours phone 0800 867666 (or 09 3034580), quote reference:
Uroxsys Helpline
National Poison Information Centre 0800 POISON (764766)
Date of issue 2nd September 2013

2. Hazards identification

DANGER



6.1D(Oral, Inhalation, Dermal), 6.4A, 6.5B, 6.9B, 8.2C, 8.3A, 9.2B

EPA Approval: HSR002658.

Surface Coatings and Colourants (Corrosive) Group Standard 2006

Hazard Statements:

- Harmful if swallowed.
- Harmful if inhaled.
- Harmful in contact with skin.
- May cause an allergic skin reaction.
- Causes serious eye irritation
- May cause damage to organs through prolonged or repeated exposure
- Causes severe skin burns and serious eye damage
- Toxic to the soil environment.

Prevention Statements

- Keep out of reach of children.
- Read label before use.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Wear protective gloves/protective clothing/eye protection.
- Avoid breathing fume/gas/mist/vapours.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment.

Response Statements

- If medical advice is needed, have product container or label at hand.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or doctor/physician if you feel unwell.
- Immediately call a POISON CENTER or doctor/physician.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
- Wash contaminated clothing before reuse.
- IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- Collect spillage.

3. Composition/information on ingredients

Material	CAS No	Content %
Benzyl alcohol	100-51-6	> 35
4,4'-Methylenebiscyclohexanamine	1761-71-3	< 35
Cyclohexanamine, 4,4'-methylenebis-, (reaction products with bisphenol A diglycidylether homopolymer)	129733-57-9	10 – 30

4. First-aid measures

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

Ingestion:	If swallowed, rinse mouth. Do not induce vomiting. Seek medical advice.
Inhalation:	Move patient to fresh air. If breathing has stopped or is laboured give assisted respiration (e.g. mouth-to-mouth). Supplemental oxygen may be indicated. Seek medical advice. Prevent aspiration of vomit. Turn victim's head to the side.
Skin Contact:	Remove contaminated clothing and shoes. Remove product and immediately flush affected area with water for at least 15 minutes.
Eye Contact:	Hold eyelids apart and immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lens if present and easy to do. Continue rinsing. Seek medical advice.

5. Fire-fighting measures

Hazards from combustion:	Corrosive substance
Fire-fighting advice:	On burning will emit toxic fumes including those of oxides of nitrogen and oxides of carbon. Keep containers cool with water spray. Fire fighters to wear self-contained breathing apparatus and suitable protective clothing.
Suitable Extinguishing Media:	Foam, dry agent (carbon dioxide, dry chemical powder).
Hazchem Code	3X

6. Accidental release measures

Emergency procedures:	If contamination of sewers or waterways has occurred advise local emergency services.
Methods for containment & clean up:	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 labelled containers for disposal.

7. Handling and storage

Handling advice:	Avoid skin and eye contact and breathing in vapour. Keep out of reach of children.
Storage advice:	Store in a cool, dry, well ventilated place and out of direct sunlight. Store away from sources of heat or ignition. Store away from foodstuffs. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

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. Respiratory protection is not required under normal conditions in a well-ventilated workplace. An organic vapour respirator National Institute for Occupational Safety and Health (NIOSH) approved for organic vapours is recommended under emergency conditions.

Personal Protective Equipment: Wear full face shield with goggles underneath, rubber boots, protective clothing and gloves.

9. Physical and chemical properties

Physical state: Mobile liquid
Solubility in water: <1%
Specific Gravity: 1.03
Flash Point (°C): 112°C (closed cup)
Flammability Limits (%): No data available
Boiling Point/Range (°C): 207°C
Colour: Colourless

10. Stability and reactivity

Stability: Stable at normal temperatures and storage conditions.
Conditions to avoid: Oxidising agents, acids
Incompatible materials: Nitric acid, ammonia, nitrogen oxides.

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: No information available.
Eye contact: Corrosive to eyes. Severe eye irritant. Burns of the eye may cause blindness.
Skin contact: Corrosive to skin. May cause burns, necrosis and permanent injury. Severe skin irritant. May cause skin sensitization. Product is absorbed through the skin and may cause nausea, headache and general discomfort.
Inhalation: Corrosive to respiratory system. Severe respiratory tract irritant. Inhalation of vapours may severely damage contacted tissue and produce scarring.
Long term Effects: Repeated and/or prolonged exposure may cause allergic reaction/sensitization. Repeated and/or prolonged exposures may result in: adverse respiratory effects (such as cough, tightness of chest or shortness of breath), adverse eye effects (such as conjunctivitis or corneal damage), adverse skin effects (such as rash, irritation or corrosion). Repeated and/or prolonged exposure to low concentrations of vapour may cause: sore throat which are transient
Toxicological Data: Benzyl alcohol: Oral LD50 (rabbit): 1040 mg/kg, Skin LD50 (rabbit): 2000 mg/kg.
4,4-Methylenebiscyclohexanamine: Oral LD50 (rat): 670 mg/kg,
Inhalation LC50 (mouse): 0.4 mg/l

12. Eco toxicological information

Avoid contaminating waterways.
Benzyl alcohol LC50 (96 h):460 mg/l *Lepomis macrochirus*(Fish, freshwater)
4,4-Methylenebiscyclohexanamine LC50 (48 h) 38 mg/l *Leuciscus idus* (fish, freshwater)

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 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



Road and Rail Transport

Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land.

UN No: 2735

Class-primary 8

Packing Group: III

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, NOS (4,4'Methylenebiscyclohexanamine)

Hazchem Code: 3X

Marine Transport

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

UN No: 2735

Class-primary 8

Packing Group: III

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, NOS (4,4'Methylenebiscyclohexanamine)

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: 2735

Class-primary 8

Packing Group: III

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, NOS (4,4'Methylenebiscyclohexanamine)

15. Regulatory information

EPA Approval: HSR002658.
Surface Coatings and Colourants (Corrosive) Group Standard 2006

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