

Safety Data Sheet



1. Identification of the substance/mixture and supplier

Product Name: Duracoat EBHB Hardener
Other Names:
Recommended use: Hardener of 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)
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



6.5B, 6.9B, 8.2C, 8.3A, 9.2C

EPA Approval: HSR002658

Surface Coatings and Colourants (Corrosive) Group Standard 2006

Hazard Statements:

- Causes severe skin burns and eye damage.
- Causes serious eye damage.
- May cause damage to organs through prolonged or repeated exposure.
- May cause an allergic skin reaction.

Prevention Statements

- Keep out of reach of children.
- Read label before use.
- Do not breathe fume/gas/mist/vapours.
- Wash hands thoroughly after handling.
- Wear protective gloves/eye protection.
- Contaminated work clothing should not be allowed out of the workplace.

Response Statements

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

3. Composition/information on ingredients

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

4. First-aid measures

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

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| Ingestion: | If swallowed, do not induce vomiting. Give 3-4 glasses of milk or water. Seek immediate medical assistance. |
| 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. 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 for at least 15 minutes. Seek medical advice. |
| Eye Contact: | Immediately flush eyes with water for at least 15 minutes and see a doctor. |
| Notes to physician: | Application of corticosteroid cream has been effective in treating skin irritation. |

5. Fire-fighting measures

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| 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

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| 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

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| 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. Keep containers closed when not in use. |
| Personal Protective Equipment: | Wear overalls, chemical goggles and impervious 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 amber liquid |
| Solubility in water: | Negligible |
| Specific Gravity: | Not determined |
| Flash Point (°C): | 112°C |
| Flammability Limits (%): | Not available |
| Boiling Point/Range (°C): | 207°C |
| Colour | Amber |

10. Stability and reactivity

Stability: Stable at normal temperatures and storage conditions.
Materials to avoid: Oxidising agents, acids
Hazardous decomposition products: 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: May cause severe burning of the mouth and upper gastrointestinal tract with pain, bleeding, vomiting, diarrhea and decreased blood pressure.
Eye contact: Causes burns. May cause eye corrosion with corneal or conjunctival ulceration. High concentrations of vapours will cause irritation.
Skin contact: Causes burns or ulceration. May cause allergic skin rashes.
Inhalation: Inhalational overexposure may cause nose, throat, or lung irritation.
Long term Effects: Prolonged or repeated exposure may cause skin sensitization or other allergic response.
Toxicological Data: Benzyl alcohol:
Oral LD50 (rabbit): 1040 mg/kg, Skin LD50 (rabbit): 2000 mg/kg.
4,4-Methylenebis(cyclohexyl)amine:
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-Methylenebis(cyclohexyl)amine 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 Corrosive

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 Corrosive

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 Corrosive

Packing Group: III

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

15. Regulatory information

EPA Approval: HSR002658

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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