



Material Safety Data Sheet

This material is hazardous according to criteria of NOHSC.

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: VBS HARDENER (WATER VAPOUR BARRIER AND SEALER)

Supplier: Selleys Pty Ltd

ABN: 67 000 049 427

Street Address: 1 Gow Street
Padstow 2211
Australia

Telephone Number: +61 2 9781 8777

Facsimile: +61 2 9781 8825

Emergency Telephone: 1 800 033 111 (ALL HOURS)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Product Description: Hardener for a two pack epoxy coating used as a vapour barrier on concrete. Also refer to the MSDS for VBS Resin. Clear blue liquid.

Components / CAS Number	Proportion	Risk Phrases
Epoxy-amine adduct 111439-78-2	>60%	-
2-methyl-1,5-pentadiamine 15520-10-2	1-<10%	R34,R41,R42
2,4,6- Tri(dimethylaminomethyl)phen ol 90-72-2	1-<10%	R22,R36/38
1,2-Cyclohexanediamine 694-83-7	1-<10%	R36/38; R42/43
Solvent naphtha (petroleum)heavy arom. 64742-94-5	1-<10%	R65

3. HAZARDS IDENTIFICATION

Risk Phrases: Causes burns. Risk of serious damage to eyes. May cause sensitisation by inhalation and skin contact.

Poisons Schedule: S5 Caution.

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4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 0 800 764766) or a doctor.

Inhalation: Remove victim from area of exposure - avoid becoming a casualty. 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. Seek immediate medical advice.

Skin Contact: If skin or hair contact occurs, immediately remove any contaminated clothing and wash skin and hair thoroughly with running water. If swelling, redness, blistering or irritation occurs seek medical assistance. For skin burns, cover with a clean, dry dressing until medical help is available.

Eye Contact: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water. Get to a doctor or hospital quickly.

Notes to physician: Treat symptomatically. Can cause corneal burns.

5. FIRE FIGHTING MEASURES

Specific Hazards: 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 if risk of exposure to vapour or products of combustion.

Suitable Extinguishing Media: Foam, dry agent (carbon dioxide, dry chemical powder).

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS: Wear protective equipment to prevent skin and eye contact. Wipe up with rag or absorbent paper.

LARGE SPILLS: Wear protective equipment to prevent skin and eye contact. Avoid breathing in vapours. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labelled containers or drums for disposal. Wash area down with excess water.

7. HANDLING AND STORAGE

Handling advice: Keep out of reach of children. Avoid skin and eye contact.

Storage advice: Store in cool place and out of direct sunlight. Store away from foodstuffs. Store away from sources of heat or ignition. Store away from incompatible materials described in Section 10. Keep containers closed when not in use - check regularly for leaks.

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Classified as a C1 (COMBUSTIBLE LIQUID) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to State Regulations for storage and transport requirements.

This material is a Scheduled Poison S5 and must be stored, maintained and used in accordance with the relevant regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

No value assigned for this specific material by the National Occupational Health and Safety Commission.

Engineering Control Measures:

Use in well ventilated areas. Keep containers closed when not in use.

Personal Protective Equipment:

Selleys Factory Safe Handling Code: Blue

MANUFACTURE, PACKAGING AND TRANSPORT: Blue - Wear clean overalls, safety boots, general purpose gloves (PVC) and full face visor. Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

If risk of inhalation exists, wear organic vapour/particulate respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

FOR CONSUMER USE: Use with adequate ventilation. Avoid contact with eyes and skin. Wear rubber/PVC gloves, safety glasses and overalls. Wash hands after use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Clear / Blue
Solubility:	Insoluble in water.
Specific Gravity:	1.00
Relative Vapour Density (air=1):	N Av
Vapour Pressure (20 °C):	N Av
Flash Point (°C):	62
Flammability Limits (%):	N Av
Autoignition Temperature (°C):	N Av
% Volatile by Weight:	N Av
Solubility in water (g/L):	Insoluble
Melting Point/Range (°C):	N App
Boiling Point/Range (°C):	N Av
Decomposition Point (°C):	N Av
pH:	N App
Viscosity:	N Av
Evaporation Rate:	N Av

10. STABILITY AND REACTIVITY

Stability: Incompatible with acids and oxidising 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, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract.

Eye contact: A severe eye irritant. Corrosive to eyes; contact can cause corneal burns. Contamination of eyes can result in permanent injury.

Skin contact: Contact with skin will result in severe irritation. Corrosive to skin - may cause skin burns. A skin sensitiser.

Inhalation: Breathing in mists or aerosols may produce respiratory irritation. A respiratory sensitiser. Can cause possible allergic reactions, producing asthma-like symptoms.

Long Term Effects:

No information available for the product.

Toxicological Data:

No LD50 data available for the product. However, for constituent(s) Epoxy-amine adduct (1):

Oral LD50 (rat): 2300 mg/kg

12. ECOTOXICOLOGICAL INFORMATION

Avoid contaminating waterways.

13. DISPOSAL CONSIDERATIONS

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor.

14. TRANSPORT INFORMATION

Road and Rail Transport

Classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for Transport by Road and Rail.

UN No: 2735
Class-primary: 8 Corrosive
Packing Group: II
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-METHYL-1,5-PENTADIAMINE AND 1,2-CYCLOHEXANEDIAMINE)

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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: II
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-METHYL-1,5-PENTADIAMINE AND 1,2-CYCLOHEXANEDIAMINE)

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: II
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S. (CONTAINS 2-METHYL-1,5-PENTADIAMINE AND 1,2-CYCLOHEXANEDIAMINE)

15. REGULATORY INFORMATION

Classification: This material is hazardous according to criteria of NOHSC.
C: Corrosive

Risk Phrase(s): R34: Causes burns.
R41: Risk of serious damage to eyes.
R42/43: May cause sensitisation by inhalation and skin contact.

Safety Phrase(s): 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.

Poisons Schedule: S5 Caution.

All the constituents of this material are listed on the Australian Inventory of Chemical Substances (AICS).

16. OTHER INFORMATION

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(1) Supplier Material Safety Data Sheet; 06/ 2002.

For further copies of this sheet or other product information contact Selleys Proprietary Limited Customer Service.

Phone: 1300 555 205 (Australia wide)

Fax: 1300 555 305 (Australia wide)

Phone: 9 820 4852 (New Zealand)

Fax: 0800 804 583 (New Zealand)

This material safety data sheet has been prepared by SH&E Shared Services, Orica.

Reason(s) for Issue:

Revised Primary MSDS

Change to Transport Information

Change in Physical Properties

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 Orica 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 their Orica representative or Orica Limited at the contact details on page 1.

Orica Limited's responsibility for the material as sold is subject to the terms and conditions of sale, a copy of which is available upon request.

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