



# Material Safety Data Sheet

This material is hazardous according to the criteria of HSNO.  
Classified as Dangerous Goods by NZS 5433:1999 Transport of Dangerous Goods on Land.

## 1. Identification of the substance/preparation and of the company/undertaking

**Product Name:** VBS RESIN ( WATER VAPOUR BARRIER AND SEALER)

**Synonyms:** Vapour Barrier System Resin  
**Packaging Type:** 4L plastic pail

**Supplier:** Selleys (A Division of ORICA NEW ZEALAND LIMITED)  
**Street Address:** 495 Rosebank Road  
Avondale, Auckland  
New Zealand  
**Telephone Number:** +64 9 820 4850  
**Facsimile:** 0 800 804 583  
**Emergency Telephone:** 0 800 734 607 (ALL HOURS)

## 2. Composition/information on ingredients

**Product Description:** For sealing concrete to limit the rate at which water vapour from slabs can migrate into wooden floor overlays. Also refer to the MSDS for VBS Hardener. Clear yellow liquid.

Bisphenol A-Epichlorhydrin reaction product(NAMW<700) 25068-38-6	>60%	R36/38,R43
Benzyl alcohol 100-51-6	10-<30%	R20/22
d-Limonene 6989-27-5	1-<10%	R38, R43

## 3. Hazards identification

**Risk Phrases:** Flammable. Harmful by inhalation and if swallowed. Irritating to eyes and skin. May cause sensitisation by skin contact.

**Toxic Substance:** None allocated.

## 4. First-aid measures

For advice, contact a Poisons Information Centre (Phone eg. Australia 131 126; New Zealand 03 474 7000) 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

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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.

**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:** Rinse mouth with water. If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

**Notes to physician:** Treat symptomatically.

## 5. Fire-fighting measures

**Specific Hazards:** Flammable liquid. Avoid all ignition sources. All potential sources of ignition (open flames, pilot lights, furnaces, spark producing switches and electrical equipment etc) must be eliminated both in and near the work area. Do NOT smoke. Flameproof equipment is necessary in all areas where this chemical is being used. Nearby equipment must be earthed. Vapour may travel a considerable distance to source of ignition and flash back.

**Fire-fighting advice:** On burning will emit toxic fumes, including those of hydrogen chloride and oxides of carbon. 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:** Water fog (or if unavailable fine water spray), foam, dry agent (carbon dioxide, dry chemical powder).

## 6. Accidental release measures

**SMALL SPILLS:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact. Wipe up with rag or absorbent paper.

**LARGE SPILLS:** Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contact and 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. If contamination of sewers or waterways has occurred advise local emergency services. Cured material can only be removed by cutting or abrasion.

## 7. Handling and storage

**Handling advice:** Avoid skin and eye contact and breathing in vapour.

**Storage advice:** Store in cool place and out of direct sunlight. Store away from foodstuffs. Store away from oxidising agents. Keep containers closed when not in use - check regularly for spills.

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

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## Personal Protective Equipment:

Selleys Safe Handling Code: Blue

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.

## 9. Physical and chemical properties

<b>Physical state:</b>	Liquid
<b>Colour:</b>	Clear / Yellow
<b>Solubility:</b>	Insoluble in water.
<b>Specific Gravity:</b>	1.1
<b>Relative Vapour Density (air=1):</b>	>1
<b>Vapour Pressure (20 °C):</b>	N Av
<b>Flash Point (°C):</b>	59
<b>Flammability Limits (%):</b>	0.7-6.1
<b>Autoignition Temperature (°C):</b>	N Av
<b>% Volatile by Volume:</b>	N Av
<b>Solubility in water (g/L):</b>	Insoluble
<b>Melting Point/Range (°C):</b>	N App
<b>Boiling Point/Range (°C):</b>	176
<b>Decomposition Point (°C):</b>	N Av
<b>pH:</b>	N App
<b>Viscosity:</b>	N Av
<b>Evaporation Rate:</b>	N Av

## 10. Stability and reactivity

**Stability:** Reacts with oxidising agents .

## 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:** An eye irritant.

**Skin contact:** Contact with skin will result in irritation. A skin sensitiser. Repeated or prolonged skin contact may lead to allergic contact dermatitis.

**Inhalation:** Material may be irritant to the mucous membranes of the respiratory tract (airways).

### Long Term Effects:

No information available for the product.

### Toxicological Data:

No LD50 data available for the product. However, for constituent(s) Bisphenol A-epichlorhydrin resin (1):

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Oral LD50 (rat): >2000 mg/kg

Dermal LD50 (rat): >2000 mg/kg

## 12. Ecotoxicological information

Avoid contaminating waterways.

## 13. Disposal considerations

Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Normally suitable for incineration by an approved agent.

## 14. Transport information

### Road and Rail Transport

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

**UN No:** 1993  
**Class-primary:** 3 Flammable Liquid  
**Packing Group:** III  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (CONTAINS D-LIMONENE)  
**Hazchem Code:** 3[Y]

### Marine Transport

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

**UN No:** 1993  
**Class-primary:** 3 Flammable Liquid  
**Packing Group:** III  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (CONTAINS D-LIMONENE)

### 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:** 1993  
**Class-primary:** 3 Flammable Liquid  
**Packing Group:** III  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (CONTAINS D-LIMONENE)

## 15. Regulatory information

**Classification:** This material is hazardous according to the criteria of HSNO.  
Xn: Harmful  
Xi: Irritant

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**Risk Phrase(s):** R10: Flammable.  
R20/22: Harmful by inhalation and if swallowed.  
R36/38: Irritating to eyes and skin.  
R43: May cause sensitisation by skin contact.

**Safety Phrase(s):** S23: Do not breathe vapour/mist.  
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.  
S38: In case of insufficient ventilation, wear suitable respiratory equipment.

**Toxic Substance:** None allocated.

## 16. Other information

(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:

First Issue Primary MSDS

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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