

Material Safety Data Sheet



1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **FIBREGLASS REPAIR KIT**

Recommended Use: Repairs fibreglass, plywood, metal, fibre sheeting and plastics. Resin is a viscous blue liquid. Hardener is a blue paste. Filler is a white powder.

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. HAZARDS IDENTIFICATION

This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

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

Risk Phrases: RESIN: Flammable. Harmful by inhalation. Irritating to eyes and skin.
HARDENER: Risk of explosion by shock, friction, fire or other sources of ignition.
Harmful if swallowed. Causes burns.

Safety Phrases: Keep out of the reach of children. Do not breathe vapour. Avoid contact with skin and eyes. Wear suitable protective clothing, gloves and eye/face protection.

Poisons Schedule: S5 Caution.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Proportion	Risk Phrases
RESIN	-	100%	-
Synthetic polymer(s)	-	30-60%	-
Styrene	100-42-5	30-60%	R10, R20, R36/38
HARDENER	-	100%	-
Additives	-	to 100%	-
1-hydroxy-1"-hydroperoxydicyclohexyl peroxide	78-18-2	30-60%	R2 R22 R34
Diisobutyl phthalate	84-69-5	30-60%	-
Ingredients determined not to be hazardous	-	to 100%	-
FILLER	-	100%	-
Talc	14807-96-6	>60%	-
Titanium dioxide	13463-67-7	1-<10%	-

4. FIRST AID MEASURES

For advice, contact a Poisons Information Centre (e.g. phone Australia 131 126; New Zealand 0800 764 766) or a doctor.

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Substance No: 000703515401

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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. 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 a Poisons Information Centre or a doctor, or for at least 15 minutes.

Ingestion:

If swallowed, do NOT induce vomiting. Give a glass of water. Seek medical advice.

Medical attention and special treatment:

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Hazards from combustion products:

Flammable liquid. On burning will emit toxic fumes.

Precautions for fire fighters and special protective equipment:

Heating can cause polymerisation and expansion, leading to containers exploding. If safe to do so, remove containers from path of fire. 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:

Alcohol resistant foam is the preferred firefighting medium but, if it is not available, fine water spray or water fog can be used.

Hazchem Code: · 2YE

6. ACCIDENTAL RELEASE MEASURES

Emergency procedures:

If contamination of sewers or waterways has occurred advise local emergency services.

Methods and materials for containment and clean up:

SMALL SPILLS: Slippery when spilt. Avoid accidents, clean up immediately. Wipe up with rag or absorbent paper.
LARGE SPILLS: Shut off all possible sources of ignition. Clear area of all unprotected personnel. 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.

7. HANDLING AND STORAGE

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

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Conditions for safe storage:

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.

Precautions for safe handling:

Avoid skin and eye contact and breathing in vapour. May form flammable vapour mixtures with air. 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. Vapour may travel a considerable distance to source of ignition and flash back.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits: No value assigned for this specific material by the National Occupational Health and Safety Commission. However, Exposure Standard(s) for constituent(s):

Styrene, monomer: 8hr TWA = 213 mg/m³ (50 ppm), 15 min STEL = 426 mg/m³ (100 ppm)

Talc (containing no asbestos fibres): 8hr TWA = 2.5 mg/m³

Titanium dioxide: 8hr TWA = 10 mg/m³

As published by the National Occupational Health and Safety Commission.

TWA - The time-weighted average airborne concentration over an eight-hour working day, for a five-day working week over an entire working life.

STEL (Short Term Exposure Limit) - the average airborne concentration over a 15 minute period which should not be exceeded at any time during a normal eight hour work day. According to current knowledge this concentration should neither impair the health of, nor cause undue discomfort to, nearly all workers.

These Exposure Standards are guides to be used in the control of occupational health hazards. All atmospheric contamination should be kept to as low a level as is workable. These exposure standards should not be used as fine dividing lines between safe and dangerous concentrations of chemicals. They are not a measure of relative toxicity.

Engineering controls:

Ensure ventilation is adequate and that air concentrations of components are controlled below quoted Exposure Standards. Vapour heavier than air - prevent concentration in hollows or sumps. DO NOT enter confined spaces where vapour may have collected. Keep containers closed when not in use.

Personal Protective Equipment:

The selection of PPE is dependant on a detailed risk assessment. The risk assessment should consider the work situation, the physical form of the chemical, the handling methods, and environmental factors.

Selleys Factory Safe Handling Code: Blue



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MANUFACTURE, PACKAGING AND TRANSPORT: Blue - Wear overalls (or 'issued' long pants and long sleeve tops), safety boots, gloves and face shield or chemical goggles. 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 respirator meeting the requirements of AS/NZS 1715 and AS/NZS 1716.

FOR CONSUMER USE: Avoid contact with eyes and skin. Wear gloves and eye protection when mixing or using. Use with adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid / Paste / Powder
Colour:	Blue
Solubility:	Insoluble in water.
Specific Gravity:	1.0 (Resin); 1.07 (Hardener)
Relative Vapour Density (air=1):	>1
Vapour Pressure (20 °C):	0.9 kPa (Resin)
Flash Point (°C):	31 (Resin); 45 (Hardener)
Flammability Limits (%):	Not available
Autoignition Temperature (°C):	Not available
% Volatile by Volume:	Not available
Solubility in water (g/L):	Insoluble
Melting Point/Range (°C):	Not applicable
Boiling Point/Range (°C):	145 (Resin)
Decomposition Point (°C):	Not available
pH:	Not applicable
Viscosity:	900 mPa.s (Resin)
Evaporation Rate:	Not available

10. STABILITY AND REACTIVITY

Chemical stability:	Stable under normal conditions of use.
Conditions to avoid:	Avoid contact with foodstuffs. Avoid exposure to heat, sources of ignition, and open flame.
Incompatible materials:	Incompatible with acids, alkalis and oxidising agents.
Hazardous decomposition products:	Oxides of carbon.
Hazardous reactions:	Hazardous polymerisation may occur.

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 and central nervous system depression. If the victim is showing signs of central system depression (like those of drunkenness) there is greater likelihood of the patient breathing in vomit and causing damage to the lungs. Breathing in vomit may lead to aspiration pneumonia (inflammation of the lung). Swallowing may result in irritation of the gastrointestinal tract.
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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.

Inhalation: Material may be irritant to the mucous membranes of the respiratory tract (airways). Breathing in vapour can result in headaches, dizziness, drowsiness, and possible nausea. Breathing in high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.

Long Term Effects:
No information available for the product.

Toxicological Data: No LD50 data available for the product. For the constituent Styrene (1):
Oral LD50 (rat): 2650 mg/kg
SKIN: Moderate irritant (rabbit).
EYES: Moderate irritant to severe irritant (rabbit).
This material has been classified by the International Agency for Research on Cancer (IARC) as a Group 2B. Group 2B - The agent is possibly carcinogenic to humans.

12. ECOLOGICAL INFORMATION

Ecotoxicity Avoid contaminating waterways.

Aquatic toxicity: Toxic to aquatic organisms. May cause long term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Disposal methods:
Refer to Waste Management Authority. Dispose of material through a licensed waste contractor. Advise flammable nature.

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; DANGEROUS GOODS.



UN No: 3269
Class-primary 3 Flammable Liquid
Packing Group: III
Proper Shipping Name: POLYESTER RESIN KIT
Hazchem Code: · 2YE

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Marine Transport

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

UN No: 3269
Class-primary: 3 Flammable Liquid
Packing Group: III
Proper Shipping Name: POLYESTER RESIN KIT

Air Transport

Classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) Dangerous Goods Regulations for transport by air; DANGEROUS GOODS.

UN No: 3269
Class-primary: 3 Flammable Liquid
Packing Group: III
Proper Shipping Name: POLYESTER RESIN KIT

15. REGULATORY INFORMATION

Classification: This material is hazardous according to criteria of Safe Work Australia; HAZARDOUS SUBSTANCE.

Hazard Category: RESIN
Xn: Harmful
Xi: Irritant
HARDENER
C: Corrosive

Risk Phrase(s): RESIN
R10: Flammable.
R20: Harmful by inhalation.
R36/38: Irritating to eyes and skin.
HARDENER
R2: Risk of explosion by shock, friction, fire or other sources of ignition.
R22: Harmful if swallowed.
R34: Causes burns.

Safety Phrase(s): S2: Keep out of the reach of children.
S23: Do not breathe vapour/mist/aerosol.
S24/25: Avoid contact with skin and eyes.
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) 'Registry of Toxic Effects of Chemical Substances'. Ed. D. Sweet, US Dept. of Health & Human Services: Cincinnati, 2006.

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

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

Phone: 1300 555 205 (Australia wide)

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Phone: 9 820 4852 (New Zealand)

Fax: 0800 804 583 (New Zealand)

Reason(s) for Issue:

5 Yearly Revised Primary MSDS

Alignment to HSNO requirements

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.