

MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: FIBREGLASS RESIN

Company: Treadwell Group Pty Ltd ABN: 40 140 529 200 Address: 58 Deeds Road, North Plympton, South Australia 5037

Phone: 1800 246 800

Poisons Information Australia 131 126 New Zealand 0800 764 766

Centre:

Other Names: Unsaturated polyester resin in styrene/methyl methacrylate solution

Product code: F-EX-SLRK-500 [P1]

F-EK-SLRK-1000 [P1]

Recommended

Manufacture of reinforced and filled plastic composites

Use:

e.g. fibreglass products

Section 2: HAZARDS IDENTIFICATION

CLASSIFIED AS HAZARDOUS ACCORDING TO CRITERIA OF WORKSAFE AUSTRALIA A DANGEROUS GOODS ACCORDING TO THE CRITERIA OF THE ADG CODE

Symbols: Xn – Harmful

Xi – Irritant F - Flammable

Risk Phrases: R11 – Highly Flammable

R20 – Harmful by inhalation

R36/38 – Irritating to eyes and skin

R43 – May cause sensitisation by skin contact

Safety Phrases: S2 – Keep out of the reach of children

S23 – Do not breathe vapour/ mist

S24 – Avoid contact with skin

S37 - Wear suitable gloves

S46 – If swallowed, seek medical advice immediately

and show container or label.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients		
Chemical Entity	CAS Number	Proportion (%)
Unsaturated polyester resin (non hazardous)	Not available	45-75
Styrene	100-42-5	24-54
Methyl methacrylate	80-62-6	1 -8

SECTION 4: FIRST AID MEASURES

FIRST AID TREATMENT

Swallowed: If swallowed, do NOT induce vomiting. Give a glass of water. If vomiting occurs

spontaneously, keep head below hips to prevent aspiration. Contact a Poison

Information centre or a doctor.

Eye: If in eyes, hold eyes open, flood with water for at least 15 minutes. Seek

immediate medical assistance.

Skin: If skin contact occurs, remove contaminated clothing, wipe resin off skin.

Wash skin thoroughly with soap and water. Wash clothing before reuse.

Inhaled: Remove victim from exposure if safe to do so. If rapid recovery does not occur,

transport to nearest medical facility for additional treatment. Remove

contaminated clothing.

First Aid Facilities: Portable water should be available to rinse eyes or skin. Provide eye baths

and safety showers.

Advice to Doctor: Treat symptomatically.

Additional None available.

information:

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SECTION 5: FIRE FIGHTING MEASURES

Specific Hazards: Flammable liquid. Polymerisable in a fire situation. Vapours are heavier

than air and can accumulate in low areas. Vapours may travel a considerable

distance to a source of ignition and flash back.

Hazards from combustion products:

Carbon monoxide and/or carbon dioxide may be evolved. Styrene, methyl

methacrylate and acrid smoke.

and Instructions:

Fire Fighting Media Heating can cause expansion or decomposition leading to violent rupture of containers. Use water fog or spray, foam, dry agent. Fire-fighters should

wear self-contained breathing apparatus.

Additional Information: Hazchem code •3Y.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Observe all local and national regulations.

Spills and Disposal:

Shut off all sources of ignition. Increase ventilation. Clear area of all unprotected personnel. Stop leak if safe to do so. Absorb with dry earth, sand or other non-combustible and inert material. Take precautionary measure against static discharge. Ensure electrical continuity by bonding

and earthing all equipment.

Methods and Materials for **Containment and**

For small spills (<1 drum), transfer by mechanical means to a labelled, sealable container for product recovery or safe disposal. Use an appropriate absorbent material and dispose of safely. For larger spills (>1 drum), transfer **Clean Up Procedures:** by means such as a vacuum truck to a salvage tank for recovery or disposal. Retain as contaminated waste. Allow and residues to evaporate or use an

appropriate absorbent material and dispose of safely.

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SECTION 7: HANDLING AND STORAGE

Precautions for Safe

Avoid breathing of or contact with material. Use in well ventilated areas. **Handling and Storage:** Wash thoroughly after handling. Avoid contact with skin and eyes and clothing. Handle open containers in well ventilated area. Ensure that the workplace is ventilated such that the Occupational Exposure limit is not exceeded. Do not empty into drains. Do not eat, drink or smoke in contaminated areas. Before eating, drinking or smoking, remove contaminated clothing and wash hands. Keep exposure to this product

to a minimum.

Dispensing: Electrostatic charges may be generated during transfer. Electrostatic

discharge may cause fire. Ensure electrical continuity by earthing all

equipment.

Flammability: Flammable.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Standards: National Occupational Health & Safety Commission (NOHSC) Worksafe

Australia has set an exposure standard for:

Styrene of 213mg/m³ (50ppm) TWA (8hr) and 426mg/m³

(100ppm) STEL

Methyl Methacrylate of 208mg/m³ (50ppm) TWA (8hr) and

416mg/m³ (100ppm) STEL

Biological Limit Values: No biological limit allocated.

Personal Protective Equipment

Respiratory If inhalation risk exists an approved organic vapour respirator

Protection: (AS/NZS 1715 and 1716) should be worn.

Hand Protection: Use solvent resistant gloves (nitrile, neoprene, butyl rubber or Teflon).

Eye Protection: Eyes should be completely protected with splash resistant goggles with

face shield. All surrounding skin should be covered.

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Protective Clothing: Use chemical resistant glove/gauntlets, boots and apron. Ensure that all

skin areas are completely covered using impermeable gloves, overalls,

hair covering and face shield.

Engineering Controls: Ensure that adequate ventilation is provided. Maintain air concentrations

below recommended exposure standards. Avoid generating and inhaling

mists. Keep containers closed when not in use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL DESCRIPTION / CHEMICAL PROPERTIES

Appearance Clear to opaque, viscous liquid

Odour Sweet or sharp aromatic

pH: N/A

Vapour Pressure (mmHg @ 20°C): 35

Vapour Density (air = 1) > 1 @ 15 Deg C

Boiling Point (°C): 100 approx – may polymerise below boiling point

Freezing/Melting Point (°C):

Solubility in Water

Not available
Insoluble

Specific Gravity (g/ml @ 15°C): 1.1

Flashpoint (°C): 23 - 33 (Closed cup)

Flammability Limits (%): 1.1 - 12.5 Auto Ignition Temperature (°C): 490 (styrene)

Percent Volatiles 33 - 67

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: This product is stable under normal conditions and transport.

Conditions to Avoid: Keep away from sunlight, heat, sparks, open flames and other

ignition sources.

Incompatible Avoid contamination with material such as alkylation catalysts

Materials: (sulphuric acid, phosphoric acid, boron trifluoride, aluminiumtrichloride),

halogen and hydrogen halides, alkali metal-metal graphite compounds

and butyl lithium and organic peroxides which catalyse rapid

polymerisation of styrene monomer.

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Hazardous Decomposition

Products:

Burning can produce carbon monoxide, carbon dioxide, styrene, methyl methacrylate and acrid smoke.

SECTION 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute

Swallowed: Styrene and methyl methacrylate may cause irritation to the mouth and

throat and abdominal discomfort, nausea and vomiting.

Eye: May cause irritation, discomfort and pain. Produces redness, possible

swelling of the eye and possible injury to the cornea.

Skin: May cause irritation and discomfort, redness and swelling. Prolonged

contact may cause severe irritation and discomfort. Skin sensitisation

resulting in allergic contact dermatitis is possible due to methyl

methacrylate. Based on data on pure methyl methacrylate, skin contact

may be a significant route of exposure with effects similar to those

described for inhalation (central nervous system depression).

Inhaled: May cause irritation to the upper respiratory tract and central nervous

system effects (dizziness, drowsiness, euphoria, loss of coordination, headache, nausea and vomiting). In poorly ventilated areas or confined spaces, unconsciousness and asphyxiation may result. Inhalation may

result in the absorption of potentially harmful amounts of material.

Chronic: Repeated skin contact may cause irritant contact dermatitis (itching,

drying, redness). Prolonged or repeated skin contact may cause sensitisation resulting in allergic contact dermatitis (due to methyl methacrylate). Styrene is classified by the international Agency for

Research of Cancer (I.A.R.C.) under Group 2B i.e. possibly carcinogenic to humans (sufficient evidence in animals, inadequate data in humans).

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SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: Styrene is moderately toxic to fish and daphnia and highly toxic to algae.

LC50-96hr: 10mg/litre (Fathead minnow) moderately toxic EC50-48hr: 4.7mg/litre (Daphnia magna) moderately toxic EC50-96hr: 0.72mg/litre (Green algae) highly toxic (algistatic)

Mobility: Styrene is expected to bind to soils and sediments and have low mobility.

Persistance/ degradability: Styrene is not expected to persist in the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods: Ensure waste disposal conforms to local waste disposal regulations.

SECTION 14: TRANSPORT INFORMATION

UN Number: 1866 **Proper Shipping Name:** RESIN SOLUTION

Class: 3 Subsidiary Risk: None allocated

Packing Group: ||| Hazchem Code: •3Y

Special None

Precautions for User:

SECTION 15: REGULATORY INFORMATION

Poisons Schedule: 5

AICS: Listed

Dangerous Goods Initial 14

Emergency Response Guide (SAA/SNZ HB76:2010):

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SECTION 16: OTHER INFORMATION

Further information may be obtained by contacting Treadwell Group on 1800 246 800

The information sourced for the preparation of this document was correct and complete at the time or writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product.