

MATERIAL SAFETY DATA SHEET INFORMATION

For further information: Please refer to the Material Safety Data Sheet following

Issue: August 07

PRODUCT: Rustshield AL

Other Names: None

Uses: Construction materials

UN No.:	1993
Dangerous Goods Class:	3
Subsidiary Risk:	None
Packing Group:	III
Hazchem Code:	3[Y]
Poisons Schedule:	6

Hazardous Nature:	This product is classified as hazardous according to Australian Safety and Compensation Council criteria.
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Exposure Standards:	TWA: 100 mg/m ³ (19 ppm); STEL: Not specified; Peak Limitation (if any): None; Skin Sensitiser (if any): none. Refer to Section 8 for further information and definitions.
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Physical Characteristics (Typical)		Section 9 of the MSDS
Appearance	Clear, viscous liquid	
Boiling Point/Range (°C):	154 - > 300	
Flash Point (°C):	41	
Specific Gravity/Density (g/ml @ 15°C):	1.05	
pH:	Not applicable	
Chemical Stability:	This product is stable at room temperature and pressure.	
Reactivity:	Ignition sources, heat: excessive sunlight or UV exposure	

Product Ingredients			Section 3 of the MSDS
<u>Ingredient</u>	<u>CAS Number</u>		<u>Proportion</u>
Aromatic Solvent	64742-95.6		< 70
Isobutyl methacrylate bead polymer	various		25 - 40
Corrosion inhibitor	various		< 2.0

For further ingredients information, please refer to the full MSDS

Risk Phrases	Section 2 of the MSDS
R 45: May cause cancer	
R 65: Harmful: May cause lung damage if swallowed	
R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed	

DEFINITIONS

Dangerous Goods	Products that are regulated for transport by Road and Rail under the national guide are Dangerous Goods. Products can be classed as Dangerous Goods if they have a flash point below 60.5°C, a pH below 3 or above 11, are explosives or toxic. These goods will be allocated a UN No., Packing Group, Hazchem Code, and possibly a subsidiary risk.
Hazardous Substances	Hazardous Substances are those products that are intrinsically hazardous by nature, rather than by misuse. These include mutagens, teratogens, carcinogens, products that are toxic (but not sufficiently toxic to be classed as Dangerous Goods or carry a subsidiary risk), and products that pose environmental risks.
Poisons	Poisons are products that are regulated by the dose or exposure, often having physical and chemical effects at certain concentrations particular to the nature of the product. For example, in small doses, some products are harmless, but with increased concentration or exposure these products can be extremely harmful. The classification indicates First Aid, etc.

1. IDENTIFICATION

Product Name: Rustshield AL
Other Names: None
Chemical Family: Resin/solvent solution
Molecular Formula: Not Applicable
Recommended Use: Construction materials
Supplier: Shieldcoat Pty Ltd
ABN: 79 090 620 410
Address: 2/1075 Beaudesert Road, Archerfield Qld 4108
Telephone: +61 7 3274 6911
Fax: +61 7 3274 6414
Emergency Phone: **0414 479 458**
All other inquiries: +61 7 3274 6911

2. HAZARDS IDENTIFICATION

Hazard Classification

This product is classified as hazardous according to Australian Safety and Compensation Council criteria.

Hazard Category

Carc. Cat 2; T: Toxic; Xn: Harmful

Risk Phrases

R 45: May cause cancer

R 65: Harmful: May cause lung damage if swallowed

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed

Safety Phrases

S 2: Keep out of the reach of children

S 9: Keep container in a well-ventilated place

S 16: Keep away from sources of ignition

S 23: Do not breath vapour/mist/spray

S 24/25: Avoid contact with skin and eyes

S 45: In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)

S 53: Avoid exposure - obtain special instructions before use

Dangerous Goods Classification 3

Poisons Schedule 6

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS Number	Proportion (% v/v)
Aromatic Solvent	64742-95.6	< 70
Isobutyl methacrylate bead polymer	various	25 - 40
Corrosion inhibitor	various	< 2.0
Contains: Trimethyl Benzene	95-63-6	< 15
Mesitylene	108-67-8	< 8.0
Propylbenzene and Isopropylbenzene (Cumene)	98-82-8	< 4.0
Xylene, mixed isomers	1330-20-7	< 0.5

4. FIRST AID MEASURES

For advice, contact Poisons Information Centre (Phone Australia: 13 1126) or a doctor.

Ingestion

If swallowed, DO NOT induce vomiting. Keep at rest. Seek immediate medical attention.

Eye Contact

Flush eyes with large amounts of water until irritation subsides. Seek immediate medical attention.

Skin Contact

Flush area with large amounts of water and wash area with soap if available. Remove contaminated clothing, including shoes, and launder before reuse. Seek medical attention for skin irritations.

Inhalation

Using proper respiratory protection, immediately remove the affective victim from exposure. Administer artificial respiration if breathing has stopped. Keep at rest. Seek immediate medical attention.

First Aid Facilities

Provide eye baths and safety showers.

Medical Attention

Treat according to symptoms. Avoid gastric lavage - aspiration of product to the lungs may result in chemical pneumonitis.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress providing fire fighters with this Material Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Suitable Extinguishing Media

Dry chemical or foam

Hazards from combustion products

Carbon dioxide and carbon monoxide

Precautions for fire fighters and special protective equipment

Full protective clothing and self-contained breathing apparatus

Hazchem Code

3[Y]

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures

Prevent product from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours or dusts from building up in confined areas. Ensure that drain valves are closed at all times. Clean up and report spills immediately.

Methods and materials for containment

Major Land Spill

- Eliminate sources of ignition.
- Warn occupants of downwind areas of possible fire and explosion hazard, where present.
- Prevent product from entering sewers, watercourses, or low-lying areas.
- Keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Advise authorities if substance has entered a watercourse or sewer or has contaminated soil or vegetation.
- Take measures to minimise the effect on the ground water.
- Contain the spilled product using the resources in the spill kit.

- Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”

Major Water Spill

- Eliminate any sources of ignition.
- Warn occupants and shipping in downwind areas of possible fire and explosion hazard, where present.
- Notify the port or relevant authority and keep the public away from the area.
- Shut off the source of the spill if possible and safe to do so.
- Confine the spill if possible.
- Remove the product from the surface by skimming or with suitable absorbent material.
- Consult an expert on disposal of recovered material and ensure conformity to local disposal regulations.
- See “First Aid Measures” and “Stability and Reactivity”.

7. HANDLING AND STORAGE**Precautions for Safe Handling**

This product is flammable. Do not open near open flame, sources of heat or ignition. No smoking. Keep container closed. Handle containers with care. Open slowly to control possible pressure release. Use grounding leads to avoid discharge (electrical

Conditions for Safe Storage

Store in a cool, dry place away from direct sunlight. Do not pressurise, cut, heat or weld containers - residual vapours are flammable. This product is flammable and will fuel a fire in progress.

Incompatible Materials

Natural Rubber, Butyl Rubber, EPDM, Polystyrene

8. EXPOSURE CONTROLS: PERSONAL PROTECTION**National Exposure Standards**

The time weighted average concentration (TWA) for this product is: 100 mg/m³ (19 ppm), which means the highest allowable exposure concentration in an eight-hour day for a five-day working week. The short term exposure limit (STEL) is: Not specified, which is the maximum allowable exposure concentration at any time. Replacing a TWA or STEL value for some products is a Peak Limitation value (Peak): None applies in this case. In addition to the exposure concentrations may be a subsidiary caution in such cases where the product is a skin sensitiser, represented as (Sk), where none applies in this case.

Biological Limit Values (BLV)

No data available

Engineering Controls: Ventilation

The use of local exhaust ventilation is recommended to control process emissions near the source. Laboratory samples should be handled in a fume hood. Provide mechanical ventilation of confined spaces. Use explosion proof equipment.

Personal Protective Equipment

Respiratory Protection: Where concentrations in air may approach or exceed the limits described in the National Exposure Standards, it is recommended to use a half-face filter mask to protect from overexposure by inhalation. A type ‘A’ filter material is considered suitable for this product.

Eye Protection: Always use safety glasses or a face shield when handling this product.

Skin/Body Protection: Always wear long sleeves, long trousers, or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves be worn when handling this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of measurement	Typical Value
Appearance	None	Clear, viscous liquid
Boiling Point/Range	°C	154 - > 300
Flash Point	°C	41
SG/Density (@ 15°C)	g/ml; kgm ⁻³	1.05
Vapour Pressure @ 20°C	kPa	No data available
Vapour Density @ 20°C	g/ml; kgm ⁻³	No data available
Autoignition Temperature	°C	> 250
Explosive Limits in Air	% vol/vol	1.0 – 7.0
Viscosity @ 20°C	cPs, mPas	> 200
Percent volatiles	% vol/vol	~ 60%
Acidity/alkalinity as pH	None	Not applicable
Solubility in Water	g/l	Insoluble in water
Other solvents	-	aromatic solvents blends

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Technical Data Sheet.

10. STABILITY AND REACTIVITY

Chemical stability

This product is stable at room temperature and pressure.

Conditions to avoid

Ignition sources, heat: excessive sunlight or UV exposure

Hazardous decomposition products

Carbon dioxide, carbon monoxide, complex polymers

Hazardous reactions

Mixing with strong oxidising agents causes violent reactions

Hazardous polymerisation

Will not occur

11. TOXICOLOGICAL INFORMATION

Acute Effects

Ingestion

If swallowed, may cause lung damage on vomiting. Will cause central nervous system depression. May cause discomfort on swallowing. Vapours will cause drowsiness and dizziness and ingestion may result in headaches and nausea.

Eye Contact

Harmful by inhalation. Vapours will cause dizziness and drowsiness. There is the possibility of organ damage over prolonged use or exposure. Central Nervous System depression includes nausea, headaches, dizziness, and possibly loss of consciousness.

Skin Contact

This product is irritating to the skin with prolonged exposure. It may result in dryness and cracking.

Inhalation

Eye contact with this product will cause redness and swelling with a burning sensation and blurred vision.

Chronic Effects

This IARC has evaluated all products with this CAS Number identification and classified it as a "possible human carcinogen" (Group 2B) based on sufficient evidence for cancer in exposed humans.

Other Health Effects Information

Persons with pre-existing liver, kidney, central nervous system or skin complaints should avoid unnecessary exposure to this product. Every effort to protect eyes, respiratory tract and skin exposure should be taken in these circumstances.

Toxicological Information

Oral LD₅₀: Rat: 8400 mg/kg

Dermal LD₅₀: No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Aquatic Toxicity:

Fish Toxicity LC₅₀: Toxic: 1 - 10 mg/l

Daphnia Magna EC₅₀: No data available

Blue-green algae: No data available

Green algae: Toxic: 1 - 10 mg/l

Persistence/Biodegradability:

This product is highly volatile and will rapidly evaporate to the air if released into the water

Mobility:

Readily biodegradable. Oxidises rapidly by photo-chemical reactions in air.

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Empty packaging should be taken for recycling, recovery or disposal through a suitably qualified or licensed contractor. Care should be taken to ensure compliance with national and local authorities. Packaging may still contain product residue that may be harmful. Ensure that empty packaging is managed in accordance with Dangerous Goods regulations.

Special Precautions

This product is not suitable for disposal by either landfill or via municipal sewers, drains, natural streams or rivers. This product is ashless and can be incinerated in a regulated facility. In the absence of a designated industrial incinerator, this product should be treated and disposed through chemical waste treatment, or considered for use in solvent recycling.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN No.	1993	UN No.	1993	UN No.	1993
Proper Shipping Name	Flammable Liquids, N.O.S	Proper Shipping Name	Flammable Liquids, N.O.S	Proper Shipping Name	Flammable Liquids, N.O.S
DG Class	3	DG Class	3	DG Class	3
Sub. Risk	None	Sub. Risk	None	Sub. Risk	None
Packing Group	III	Packing Group	III	Packing Group	III
Hazchem	3[Y]	Hazchem	3[Y]	Hazchem	3[Y]

Dangerous Goods Segregation

This product is classified as Dangerous Goods Class 3 for Transport by Road and Rail.

15. REGULATORY INFORMATION

Country/Region: Australia

Inventory: AICS

Status: Listed

Poisons Schedule: 6

16. OTHER INFORMATION

Reasons for Issue: Upgraded MSDS. New information in all sections.

Abbreviations:

AICS: Australian Inventory of Chemical Substances

CAS Number: Chemical Abstracts Number

IARC: International Agency for Research on Cancer

ASCC: Australian Safety and Compensation Council

References:

- Supplier Material Safety Data Sheets
- *Sax's Dangerous Properties of Industrial Materials*, Richard J Lewis Snr., pub. Canada (2000)

The information sourced for the preparation of this document was correct and complete at the time of 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. For further information, please contact Shieldcoat Pty Ltd.
