

# Surfblanks Australia.

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## MATERIAL SAFETY DATA SHEET

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Classified as Hazardous according to criteria of NOHSC

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### IDENTIFICATION

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Product Name	Surfblanks Polyester Surfboard Resin
Chemical/Technical Description	Unsaturated polyester resin in Styrene solution
Proper Shipping Name	Resin Solution
Other Names	Not Available
UN Number	1866
DG Class	3
Packaging Group	II
Hazchem Code	3 [Y]
Poisons Schedule	S5
Product Use	Composites Fabrication

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### PHYSICAL DESCRIPTION/PROPERTIES

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Appearance	Bluish transparent liquid
Boiling Point	145 C
Vapour Pressure	0.6 kpa at 20C*
Specific Gravity	0.95 - 1.15 (H2O = 1 ) Dependant on non-volatile content.
Flash Point	31 C TCC *
Flamm. Limit	
LEL	1.1% *
Flamm. Limit	
UEL	6.1% *

Solubility in Water      Insoluble

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### OTHER PROPERTIES

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Evaporation Rate	0.49 ( Butyl acetate = 1 *
Vapour Density	3.6 ( Air = 1 ) *
Odour	Characteristic styrene
Colour	Tinted blue
Form	Liquid
Stability	Stable under normal storage conditions
Haz.	
Polymerisation	May occur if contaminated, or at elevated temperatures.
Materials to Avoid	Alkylation catalysts and strong acids (H <sub>2</sub> S <sub>04</sub> , H <sub>3</sub> P <sub>04</sub> ,BF <sub>3</sub> , A <sub>1</sub> C <sub>13</sub> ) halogens and hydrogen halides. Contact with copper alloys. Oxidising agents.
Other information	* for Styrene

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### INGREDIENTS

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Ingredients:		
Name	CAS	Proportion
Styrene Monomer	00-42-5	30-60 %
Polyester resin	Proprietary	30-60 %
Quinone and/or phenolic inhibitor	Proprietary	0-0.5 %

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### HEALTH HAZARD INFORMATION

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#### Health Effects

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**Acute-Swallowed**      May result in irritation, vomiting and depression.

- Acute - Eye** A severe eye irritant.
- Acute - Skin** A severe skin irritant. Prolonged contact with skin may cause blistering, and repeated contact may have a defatting effect causing dryness and cracking.
- Acute - Inhaled** Vapour can cause severe irritation to the respiratory tract. Styrene at 400 ppm is irritating to all parts of the respiratory tract. Styrene possesses narcotic - like properties; excessive exposure may result in headache, dizziness, incoordination, fatigue, nausea loss of appetite and loss of consciousness.
- Chronic** Detailed toxicological information is available on request.
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#### Advice to Doctor

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- Advice to Doctor** Aspiration may cause pneumonitis. Administration of vegetable oil with or without activated charcoal is recommended for initial treatment of irritant effect on the alimentary canal.
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#### First Aid

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- Swallowed** DO NOT Induce vomiting. Give a glass of water. Seek immediate medical assistance.
- Eye** Irrigate with copious quantity of water for at least 15 minutes. Seek medical assistance.
- Skin** Wash with plenty of soap and water. Remove contaminated clothing, including shoes. Seek medical assistance if symptoms persist.

**Inhaled** Using proper respiratory protection, immediately remove the affected person from exposure. Administer artificial respiration if breathing is stopped. Seek immediate medical assistance.

**First Aid Facilities** Eye wash fountains and safety showers should be easily accessible.

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### Other Health Hazard Information

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**Carcinogenicity** Styrene is classified as 'possibly carcinogenic to humans, by the International Agency for Research on Cancer (IARC). Detailed toxicological information is available on request.

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### PRECAUTIONS FOR USE

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Exposure Limits	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)
	Styrene Monomer			213	50

**Eng. Controls** Use in well ventilated area only. Provide ventilation to control exposure limit below Exposure standard.

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### Personal Protection

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**Respirator Type** Where concentrations in air may exceed the recommended (AS1716) exposure limits, or work practice or other means of exposure reduction are not adequate, approved respirator may be necessary to prevent overexposure by inhalation.

**Eye Protection** Safety glasses or chemical goggles as appropriate. Consider use of full face-shield if there is risk of splashing.

**Glove Type** Chemical resistant gloves.

Clothing	Long Sleeved overalls.
Footwear	Safety boots.

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### Flammability

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Fire Hazards	Flammable. Keep away from heat, sparks or naked flames
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## SAFE HANDLING INFORMATION

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### Storage and Transport

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Storage Precautions	Store in well ventilated dry area, ideally below 27C. Keep containers closed when not in use. Open drums slowly to relieve any internal pressure. In bulk storage, check vents and flame arrestors for plugging and formation of polymer. Ground all connections, container etc. when using. Store away from sources of heat or ignition, and oxidising agents. Avoid prolonged storage over 38 C.
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Transport	Flammable liquid, class 3.
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Special Shipping Information	IMDG 3.3 Marine pollutant.
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Proper Shipping Name	RESIN SOLUTION
EPG Number	3A1
IERG Number	14
Packaging Method	5.9.3RT1,RT7

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### Spills and Disposal

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Spills & Disposal: Extinguish or remove all sources of ignition. Clear area of all unprotected personal. Wear appropriate protection equipment. Do not contaminate streams, rivers or water courses. Do not flush drains or sewers. Inform local authority if liquid enters drains, sewers, steams etc. Shut off sources of leak if safe to do so. Dike and contain spill with sand or earth.

Minor: Absorb the liquid with sand, earth or other inert absorbent. Place absorbent in suitable, sealable, labelled containers. Keep away from heat, naked flame or sparks.

Major: Take up liquid with vacuum truck or absorb with sand, earth or other inert absorbent. Place used absorbent in suitable, sealed, labelled containers. Keep away from heat, naked flame or sparks.

Disposal: Dispose of in accordance with Local, State and Federal regulation.

Other Disposal Info: May be treated to convert to solid resin.

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### Fire/Explosion Hazard

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Fire/Explos. Hazard	Polymerisation may occur at elevated temperatures, such as a fire. If Polymerisation occur in a closed container, violent rupture may result.
Hazardous Decomposition or By-products	Carbon monoxide, carbon dioxide, fumes and smoke.
Fire Fighting Procedures	Wear full body protective clothing, and self-contained breathing apparatus.
Precautions	Water spray may be used to keep fire exposed containers cool.
Extinguishing Media	Foam. carbon dioxide or dry chemical.
Hazardous Reaction	Avoid sunlight, open flames, contamination and prolonged storage above 38C

Hazchem Code 3(Y)

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OTHER INFORMATION

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Toxicology	for Styrene:  Oral LD50(Rat): 4,370mg/ kg, slightly toxic  Dermal LD50(Rabbit): Greater than 5,010 mg / kg, practically non toxic.  Eye irritation (Rabbit): (FHSA)10.3 on a scale of 110.0, slightly irritating  Skin irritation (Rabbit): (FHSA) 2.4 on a scale of 8.0, slightly irritating  Vapour inhalation (Rat): 4 out of 6 rats died during a six hour exposure to 3,290 ppm  More extensive toxicological information is available on request.
Environ. Protection	Avoid contaminating waterways. Harmful to aquatic life.
Risk statement	R10 Flammable. R20 Harmful by inhalation. R36 / 38 Irritating to eyes and skin.
Safety Statement	S23 Do not breathe gas / fumes / vapour / spray
Pkg. & Labelling	Class 3 labels in accordance with the Australian Code for the Transport of Dangerous Goods, including Schedule 5 poison and Marine Pollutant requirements. Hazard Category Harmful, Irritant