

Material Safety Data Sheet

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Infosafe No™ LPZYE Issue Date : March 2011 ISSUED by INNOVAT

Product Name **IC STONE COATING**

Classified as hazardous

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name IC STONE COATING
Product Code STC 071, SIC 072, STC073, SEC074
Company Name INNOVATIVE COMPOSITES PTY LTD (ABN 42 120 389 433)
Address Factory 2/22 Hightech Place Lilydale
Victoria 3140 Australia
Telephone/Fax Number Tel: 9738 7095
Fax: 9738 7096
Recommended Use Stone coating.
Other Names Name Product Code
CLEARSTONE

2. HAZARDS IDENTIFICATION

Hazard Classification Classified as hazardous
HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.
Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

Risk Phrase(s) Classified as hazardous
R10 Flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.

Safety Phrase(s) S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapour/spray
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.
S37/39 Wear suitable gloves and eye/face protection.
S38 If insufficient ventilation, wear suitable respiratory equipment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredients</u>	<u>Name</u>	<u>CAS</u>	<u>Proportion</u>	<u>Hazard Symbol</u>	<u>Risk Phrase</u>
	Polyester resin	Proprietary	30-65 %		
	Styrene Monomer	100-42-5	30-60 %		
	Quinone and/or phenolic inhibitors	Proprietary	0-0.5 %		
	Ingredient determined not to be hazardous	Not required	Balance		

4. FIRST AID MEASURES

Inhalation If inhaled, remove affected person from contaminated area. Apply artificial respiration if not breathing. Seek medical attention.

Ingestion Do not induce vomiting. Wash out mouth thoroughly with water. If symptoms develop seek medical attention.

Skin Remove contaminated clothing. Wash affected area thoroughly with soap and water. Wash contaminated clothing before re-use or discard. Seek medical attention.

Eye If in eyes, hold eyelids apart and flush the eyes continuously with running water. Continue flushing for several minutes until all contaminants are washed out completely. Seek medical attention.

First Aid Facilities Eyewash and normal washroom facilities.

Advice to Doctor Treat symptomatically. Aspiration may cause pneumonitis.

Other Information For advice in an emergency, contact a Poisons Information Centre (Phone Australia 13 1126) or a doctor at once.

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5. FIRE FIGHTING MEASURES

Suitable Use dry agent or foam.**Extinguishing Media****Hazards from**

Under fire conditions this product may emit toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Combustion**Products****Specific Hazards**

Flammable liquid and vapour. Vapour/air mixtures may ignite explosively. Flashback along the vapour trail may occur. Runoff to sewer may create fire or explosion hazard.

Polymerisation may occur at elevated temperatures, such as a fire. If polymerisation occurs in a closed container, violent rupture may result.

Hazchem Code

•3Y

Precautions in**connection with Fire**

Fire fighters should wear Self-Contained Breathing Apparatus (SCBA) operated in positive pressure mode and full protective clothing to prevent exposure to vapours or fumes. Water spray may be used to cool down heat-exposed containers.

6. ACCIDENTAL RELEASE MEASURES

Emergency**Procedures**

Wear appropriate personal protective equipment and clothing to prevent exposure. Extinguish or remove all sources of ignition and stop leak if safe to do so. Increase ventilation. Evacuate all unprotected personnel. If possible contain the spill. Place inert absorbent, non-combustible material onto spillage. Use clean non-sparking tools to collect the material and place into suitable labelled containers for subsequent recycling or disposal. Dispose of waste according to the applicable local and national regulations. If contamination of sewers or waterways occurs inform the local water and waste management authorities in accordance with local regulations.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid contact with skin and eyes. Wear overalls, impervious gloves and safety glasses. Use in designated areas with adequate ventilation. Use approved flammable liquid storage containers in the work area. Prevent release of vapours and mists into workplace air. Keep containers closed when not in use. Take precautionary measures against static discharges. Keep material away from sparks, flames and other ignition sources. Do not empty into drains. Ensure a high level of personal hygiene is maintained when using this product, that is, always wash hands before eating, drinking, smoking or using the toilet facilities.

Conditions for Safe Storage

Store in a cool (below 38°C), dry, well-ventilated area away from sources of ignition, oxidising agents, strong acids, foodstuffs, and clothing. Keep containers closed when not in use and securely sealed and protected against physical damage. Inspect regularly for deficiencies such as damage or leaks. Have appropriate fire extinguishers available in and near the storage area. Take precautions against static electricity discharges. Use proper grounding procedures. For information on the design of the storeroom, reference should be made to Australian Standard AS1940 - The storage and handling of flammable and combustible liquids. Reference should also be made to all applicable local and national regulations.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards

No exposure value assigned for this specific material by the National Occupational Health and Safety Commission (NOHSC), Australia. However, the available exposure limits for ingredients are listed below:

National Occupational Health And Safety Commission (NOHSC), Australia Exposure Standards:

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³
Styrene	50	213	100	426

TWA (Time Weighted Average): The average airborne concentration of a particular substance when calculated over a normal eight-hour working day, for a five-day week.

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Biological Limit Values	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 workday. No biological limits allocated.
Engineering Controls	Provide sufficient ventilation to keep airborne levels below the exposure limits. Where vapours or mists are generated, particularly in enclosed areas, and natural ventilation is inadequate, a flameproof exhaust ventilation system is required. Refer to AS 1940 - The storage and handling of flammable and combustible liquids and AS/NZS 2430.3.1:2004: Classification of hazardous areas - Examples of area classification - General, for further information concerning ventilation requirements.
Respiratory Protection	If engineering controls are not effective in controlling airborne exposure then an approved respirator with a replaceable organic vapour filter should be used. Reference should be made to Australian/New Zealand Standards AS/NZS 1715, Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716, Respiratory Protective Devices, in order to make any necessary changes for individual circumstances.
Eye Protection	Safety glasses with side shields or chemical goggles should be worn. Final choice of appropriate eye/face protection will vary according to individual circumstances. Eye protection devices should conform with Australian/New Zealand Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Wear gloves of impervious material, such as laminated film. Final choice of appropriate gloves will vary according to individual circumstances i.e. methods of handling or according to risk assessments undertaken. Reference should be made to AS/NZS 2161.1: Occupational protective gloves - Selection, use and maintenance.
Body Protection	Suitable protective work wear, e.g. cotton overalls buttoned at neck and wrist is recommended. Chemical resistant apron is recommended where large quantities are handled.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear to hazy tinted liquid
Odour	Characteristic styrene odour
Melting Point	Not available
Boiling Point	145°C (for Styrene)
Solubility in Water	Insoluble
Specific Gravity	0.95 to 1.15 (water=1) Dependent on non-volatile content
Vapour Pressure	0.6 kPa at 20°C (for Styrene)
Vapour Density (Air=1)	3.6 (for Styrene)(air=1)
Evaporation Rate	0.49 (for Styrene) (n-butyl acetate=1)
Flash Point	31°C (Tag closed cup)
Flammability	Flammable
Auto-Ignition Temperature	Not available
Flammable Limits - Lower	1.1%
Flammable Limits - Upper	6.1%

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat and other sources of ignition and prolonged storage above 38°C.
Incompatible Materials	Alkylation catalysts and strong acids (H ₂ S ₀₄ , H ₃ P ₀₄ , BF ₃ , AlCl ₃), halogens and hydrogen halides. Contact with copper and copper alloys. Oxidising agents.

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Hazardous Decomposition Thermal decomposition may result in the release of toxic and/or irritating fumes and gases including carbon monoxide and carbon dioxide.

Products

Hazardous Reactions Will react with incompatibles.

Hazardous Polymerization May occur if contaminated, or at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

Toxicology Information Toxicological data listed below.

Inhalation Harmful by inhalation. Inhalation of product vapours can cause irritation of the nose, throat and respiratory system. 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.

Ingestion Ingestion of this product may irritate the gastric tract causing nausea and vomiting.

Skin Irritating to skin. Skin contact will cause redness, itching and swelling. Repeated exposure may cause skin dryness and cracking and may lead to dermatitis.

Eye Irritating to eyes. On eye contact this product will cause tearing, stinging, blurred vision, redness and possible conjunctivitis.

Chronic Effects Continued exposures to levels near 400 ppm can cause respiratory tract irritation; prolonged inhalation of vapours can cause respiratory tract obstruction. Peripheral neuropathy is possible upon long-term exposure to styrene. CNS depression is possible upon long-term exposure to styrene. It is important to note that Styrene is classified as 'possibly carcinogenic to humans' by the International Agency for Research on Cancer (IARC).

Acute Toxicity - Dermal Acute toxicity for Styrene:
LD50 (dermal, rabbit) > 5,010 mg/kg

Acute Toxicity - Inhalation Acute toxicity for Styrene:
LD50 (inhalation, rat) = 2770 ppm/4h (11.8 mg/L/4H)

Eye Irritation Eye irritation (Rabbit) (Standard Draize); moderate to severe

Skin Irritation Skin irritation (Rabbit) (Standard Draize); mild to moderate

12. ECOLOGICAL INFORMATION

Ecotoxicity No ecological data are available for this material.

Persistence / Degradability Not available

Mobility Not available

Environ. Protection Prevent this material entering waterways, drains and sewers.

13. DISPOSAL CONSIDERATIONS

Disposal Considerations Disposal of spilled or waste material must be carried out in accordance with the relevant local and national government regulations. Advise flammable nature. Empty containers may contain flammable residues. Do not puncture, cut or weld empty containers.

14. TRANSPORT INFORMATION

Transport Information This material is a Class 3 - Flammable Liquid according to The Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)
Class 3 - Flammable Liquids are incompatible in a placard load with any of the following:

- Class 1, Explosives
- Division 2.1, Flammable Gases, (Division 2.1 and Class 3 are incompatible in transport if both are in tanks or other receptacles with a capacity individually exceeding 500 L.)
- Division 2.3, Toxic Gases
- Division 4.2 Spontaneously Combustible Substances
- Division 5.1 Oxidising Agents and Division 5.2, Organic Peroxides

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	- Class 6 Toxic or Infectious Substances (where the flammable liquid is nitromethane)
	- Class 7 Radioactive Substances.
U.N. Number	1866
Proper Shipping Name	RESIN SOLUTION
DG Class	3
Hazchem Code	•3Y
Packing Group	III
EPG Number	3A1
IERG Number	14

15. REGULATORY INFORMATION

Regulatory Information	Classified as Hazardous according to criteria of National Occupational Health & Safety Commission (NOHSC), Australia. Classified as a Scheduled Poison (S5) according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).
Poisons Schedule	S5
Hazard Category	Harmful, Irritant

16. OTHER INFORMATION

Date of preparation or last revision of MSDS MSDS Created: March 2011

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