



SAFETY DATA SHEET

1. Product Identification

Product Name	Polyester Gelcoat / Flowcoat / Putty - white and natural	
SDS Number	3512	
Recommended use of the chemical	Thermosetting unsaturated polyester resins for use in the industrial composite industry, usually for high external durability and water resistant applications.	
Restrictions	None known.	
Manufacturer / Supplier Information		
Company Name	AA Composites International Pty Ltd	
Address	Unit 4, 23 Londer Close Hemmant, Qld 4174 Australia 61 444568646	
Telephone	www.aaci.au	
Website	sales@aaci.au	
Email		
Emergency Contact	Des Lawson	Phone 0418 991 337
	Poisons Information Centre	Phone 131 126

2. Hazard(s) Identification

Classification of substance or Mixture / Signal Word

Signal Word	WARNING
Classifications	Flammable Liquids - Category 3 Acute Toxicity (Inhalation) - Category 4 Eye irritation – Category 2A Skin irritation – Category 2



Hazard Statements

H226 - Flammable liquid and vapour.
H241 – Heating may cause a fire or explosion.
H332 - Harmful if inhaled.
H315 – Causes skin irritation.
H319 - Causes serious eye irritation.
H317 - May cause an allergic skin reaction.

Precautionary Statements

General

P101 If medical advice is needed, have product container or label at hand.

Prevention

- P102 Keep out of reach of children.
- P103 Read label before use.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat, sparks, open flames and hot surfaces. – No smoking.
- P233 Keep container tightly closed.
- P235 Keep cool.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ventilating/lighting equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P260 Do not breathe dust/fumes/gas/mist/vapours/spray.
- P264 Wash face, hands and any other exposed skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P285 In case of inadequate ventilation, wear respiratory protection.
- P280 Wear protective gloves/protective clothing/eye protection/ face protection.
- P281 Use personal protective equipment as required.

Precautionary Statements

Response

- P391 Collect spillage.
- P308+P313 If exposed or concerned, get medical advice.
- P321 Specific treatment (see supplemental first aid instructions on this label)
- P304+P340+P315 **IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for Breathing. Get immediate medical advice/attention.
- P301 +P330+P310+ **IF SWALLOWED:** Rinse mouth. Immediately call a POISON CENTRE or doctor. DO NOT
P331 induce vomiting.
- P305+P351+P315 **IF IN EYES:** Rinse cautiously with water for several minutes. Get immediate medical Attention.
- P303 + P361 + P353+**IF ON SKIN (or hair)** Take off immediately all contaminated clothing. Rinse skin with
P363 water/shower. Wash contaminated clothing before reuse.
- P306+P362 **IF ON CLOTHING:** Take off contaminated clothing and wash before re-use.
- P370+P378 In case of fire: Use carbon dioxide, dry chemical or foam for extinction.
- P333+P313 IF SKIN IRRITATION OR RASH OCCURS: Get medical attention.

Storage

- P233+P403+P235 Keep container tightly closed. Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal

- P501 Dispose of contents and container in accordance with all local, regional, national and international regulations.

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS NO.	PROPORTION
Styrene	100-42-5	<50%
Non-Hazardous Materials	N/A	Balance

4. First Aid Measures

Inhalation

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

Skin contact

If skin or hair contact occurs, remove contaminated clothing and flush skin and hair with running water. If symptoms develop, seek medical attention.

Eye Contact

If eye contact occurs, hold eyelids apart and flush eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. Seek immediate medical attention.

Ingestion

Do not induce vomiting. Wash out mouth thoroughly with water. Seek immediate medical attention.

Self-Protection of the first aider

Remove all sources of ignition. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Use personal protective equipment as required. See section 8 for more information. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Avoid contact with skin, eyes or clothing.

Symptoms caused by exposure

Inhalation

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing, give oxygen. If breathing stops or gives signs of failing, give artificial respiration. If heart beat is absent, give external cardiac compression (CPR).

Ingestion - Swallowing

Ingestion may have the following effects: - Irritation of the mouth, throat and digestive tract. A large dose may have the following effects: - headache, nausea, vomiting, loss of consciousness. Aspiration during swallowing or vomiting may severely damage the lungs.

Eyes

Liquid may cause conjunctival and transient corneal damage. Vapour at concentrations above 100ppm will cause conjunctival irritation. Vapour at concentrations above 600ppm will cause conjunctival irritation and possible corneal damage.

Skin

Material may cause irritation. Repeated and / or prolonged contact may lead to dermatitis.

Medical attention and special treatment needed – Note to doctors

Treat symptomatically. Keep under medical surveillance for 48 hours if aspiration could have occurred.

5. Fire Fighting Measures

Suitable extinguishing media

Use water spray, foam (AFFF) dry chemical or carbon dioxide. Keep containers and surroundings cool with water.

Unsuitable extinguishing media

Do not use water jet.

Specific hazards Products

Moderate to severe explosion hazard in confined spaces. Be aware of possibility of re-ignition.

Special protective equipment and precautions for fire-fighters

Fire fighters should wear full protective clothing and self-contained breathing apparatus (SCBA) operated in positive pressure mode. In case of fire, the product may be violently or explosively reactive. Use water spray to disperse vapours. This product should be prevented from entering drains and watercourses. Hazchem code 3Y.

6. Accidental Release Measures

Personal precautions, Protective Equipment and emergency procedures.

Consider need for evacuation. Eliminate all sources of ignition. Wear appropriate clothing. Wear respiratory protection. Beware of vapours accumulating to form explosive concentrations.

Environmental precautions

Try to prevent the material from entering drains or water courses. Advise authorities if spillage has entered water courses or sewer or has contaminated soil or vegetation.

Spillages

Contain or absorb using earth, sand or other inert material. Transfer into suitable containers for recovery or disposal. Take precautionary measures against static discharges. Beware of gas accumulating to form explosive concentrations.

7. Handling and Storage

Precautions for safe handling

Containers, even those that have been emptied can contain vapours. Do not cut, drill, weld or similar operations on or near empty containers. Use in a well-ventilated area. Adequate ventilation should be provided if there is a risk of vapour build up. Avoid inhaling vapour. Avoid contact with eyes, skin and clothing. Never use air pressure to transfer material.

Conditions for Safe Storage, including any incompatibilities.

Storage temperature should be kept below 25°C. Storage area should be well ventilated. Store away from heat and ignition. Storage and transfer equipment should be adequately earthed and bonded to prevent accumulation of static charges.

Incompatible Materials

Oxidizing agents, Mineral Acids, Alkalis, Phosphorous pentoxide. Peroxides. Ferrous chloride and other metal halides.

8. Exposure Controls / Personal Protection

Occupational Exposure Guidelines

TWA OEL CL 100 ppm (Styrene)

Engineering Control Measures

Provide good mechanical ventilation with a non-sparking, grounded ventilation system exhausting directly to the outside, to control airborne levels below the OEL above, and separate from other exhaust ventilation systems. Care should be taken in controlling the emission of fumes into the environment, to meet the local regulations. Electric lighting and plugs to be explosion proof. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Personal Protection Equipment

Eye and face protection

Safety glasses with side shields, chemical goggles or full-face shield as appropriate should be used. Have an emergency eye wash station readily available in the working area.

Skin Protection

Wear gloves of impervious material such as PVC, coveralls, boots, and/or other resistant protective clothing. Have a safety shower / eye wash fountain readily available in the immediate work area.

Respiratory Protection

If TWA OEL CL level above is exceeded, then suitable respiratory protection must be worn. Up to 500 ppm a chemical cartridge respirator with organic vapour cartridge(s). Above 500 ppm then full face supplied air respiratory, or self-contained breathing apparatus should be used. Note that the IDL (immediately dangerous to life or health) concentration of styrene is 700 ppm.

EXPOSURE CONTROLS / PERSONAL PROTECTION (Continued)**Personal Protection Comments**

Dust generated by grinding or polishing finished products is regarded as hazardous and precautions should be taken to ensure dust concentrations to be maintained below a TWA OEL value of 10 mg m⁻³. Where dust concentrations exceed these values, appropriate dust masks should be worn.

Other Protective Measures

Remove contaminated clothing immediately. Keep contaminated clothing in closed containers. Discard or launder before wearing. Inform laundry personnel of contaminated hazards.

Hygiene Measures

Do not eat, drink or smoke in the workplace. Wash hands before eating.

9. Physical and Chemical Properties

Colour	White
Form	Slightly Viscous liquid
Odour	Pungent
Boiling Point (°C)	145 - 148°C
Freezing Point (°C)	-30.6°C
Vapour Pressure	0.6 kPa at 20°C 0.81 kPa at 25°C
Density	1.0904 g cm ⁻³
Vapour Density (Air = 1)	4.33
Flashpoint (°C)	31°C
Autoignition temperature	490°C
Flammability Limits (%)	UEL – 1.1% LEL – 6.1%
Explosive Properties	LEL 1.1% UEL 6.1%
Oxidising Properties	None
Solubility in Water @20°C	Practically Insoluble 0.03%
PH (1:1 water mixture)	Not applicable

10. Stability and Reactivity

Stability	Stable under normal storage conditions, below 25°C.
Conditions to avoid	Heat, sparks, open flames, ignition sources.
Materials to avoid	Oxidising agents. Mineral acids. Alkalis. Phosphorous pentoxide. Peroxides. Ferrous chloride and other metal halides.
Hazardous Decomposition Products	Heating to decomposition may cause the emission of thick irritating and acid fumes, resulting in zero visibility. Styrene may form styrene oxide as decomposition product.

11. Toxicological Information

Acute Toxicity

Result	Species	Dose	Exposure
LD50 (Acute Oral)	Rat	5000 mg.Kg ⁻¹	-
LD50 (Inhalation)	Rat	>2800 ppm	4 h

Irritation**Skin and eye contact**

Causes moderate irritation to skin and eyes.

Inhalation

Excessive exposure may cause irritation of upper respiratory tract.

TOXICOLOGICAL INFORMATION (Continued)

Chronic or long-term toxicity

Carcinogenicity

The IARC (International Agency for Research on Cancer) assessment: this product (styrene) is possibly carcinogenic to humans (Group 2B). The EEC Commission have reviewed the available data for styrene and have concluded that there is insufficient evidence to warrant classification of styrene as a carcinogen.

Mutagenicity

Most studies conducted on styrene have proved inconclusive.

Reproductive Toxicity

Studies in laboratory animals have shown no effects on foetal development in rats or rabbits.

Developmental effects were seen in laboratory animals only on dose levels that were maternally toxic. The following species was affected: rats – oral.

Studies in laboratory animals have shown no effects on fertility in the following species: rats.

12. Ecological Information

Mobility

This product is insoluble in water.

Persistence / Degradability

Styrene is readily biodegradable. BOD20=87% of ThOD

BOD20 (salt water) =80% of ThOD

Bio Accumulation

May cause tainting of fish and shellfish.

Ecotoxicity

Styrene is rates as slightly toxic to aquatic species.

Styrene	
Toxicity	Results
Bluegills	96h LC50 of 65 mg/litre
Daphnia Magna (water flea)	Acute LC50 23-255 mg/Litre
Growth Inhibition threshold in bacteria	72mg/Litre

13. Disposal Considerations

Disposal Methods

Disposal of liquid resin should only occur under conditions approved by local authorities. See also section 6. It may be necessary to wet dust generated from polishing or grinding finished products in order to avoid airborne dispersal thereof.

Disposal of packaging

Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near to the container. Empty containers may contain hazardous residues and should be disposed of under

DISPOSAL CONSIDERATIONS (Continued)

conditions approved by local authorities. Contaminated containers must not be treated as household waste. Contaminated containers must not be incinerated. Contaminated containers must not be re-used.

14. Transport Information

NOT TO BE SENT BY MAIL

UN Number	1866
Proper Shipping Name	Resin Solution
Dangerous Good Class	3

TRANSPORT INFORMATION (Continued)

Hazchem Code 3Y
Packaging Group III

OTHER INFORMATION INCLUDING DATE OF PREPARATION

Date of preparation 12 October 2017

Authorisation

Name	Des Lawson
Title	Product Manager
Issue Date	12 June 2023

The information contained herein summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace, including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request. All information contained in this SDS is as accurate and up-to date as possible. No Warranty expressed or implied is made as to its accuracy, reliability or completeness. AA Fibreglass supplies assumes no responsibility for injury from the use of the product described herein.

End of SDS