

## SAFETY DATA SHEET

Section 1.	Identification of the material and the supplier
Product:	Polyester Resin
Item Code: Product Use:	9001 Coating Intermediate
Restriction of Use:	Coating Intermediate Refer to Section 15
Restriction of ose.	Keler to Section 15
Australian Supplier:	Norglass Paints
Address:	59 Moxon Road
	Punchbowl NSW 2196
	Australia
Telephone:	+61 2 9708 2200
Email:	<u>techinfo@norglass.com.au</u>
New Zealand Supplie	er: xxx
Address:	XXX
	XXX
Telephone:	0508 724687
Fue and a set Neurals	
Emergency Numbe Australia:	ers: 13 1126 (Poisons Information Centre)
New Zealand:	0800 764 766 (National Poison Centre)
Date of SDS Prepara	ation: 10 December 2023 v3
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#### Section 2. Hazards Identification

#### Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

#### New Zealand:

This substance is hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

# EPA Approval No: Surface Coatings and Colourants (Flammable, Carcinogenic) - HSR002669

**Pictograms** 



GHS Classification and Category	Hazard Code	Hazard Statement
Flammable Liquids Cat. 3	H226	Flammable liquid and vapour.
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Skin irritation Cat. 2	H315	Causes skin irritation.

Eye irritation Cat. 2	H319	Causes serious eye irritation.
Germ cell mutagenicity Cat. 2	H341	Suspected of causing genetic defects.
Carcinogenicity Cat. 2	H351	Suspected of causing cancer.
Reproductive toxicity Cat. 2	H361	Suspected of damaging fertility or the unborn child.
Specific target organ toxicity – repeated exposure Cat. 1	H372	Causes damage to organs through prolonged or repeated exposure.
Hazardous to the aquatic environment acute Cat. 1	H400	Very toxic to aquatic life.

<b>Prevention Code</b>	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
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 or hot surfaces. No smoking.
P233	Keep container tightly closed.
P240	Ground, bond container and receiving equipment.
P241	Use explosion-proof electrical, ventilating and lighting.
P242	Use only non-sparking tools.
P243	Take action to prevent static discharge.
P260	Do not breathe fumes, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P273	Avoid release to the environment.
P280	Wear protective clothing.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P314	Get medical advice/attention if you feel unwell.
P330	Rinse mouth.
P362 + P364	Take off contaminated clothing and wash before re-use.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel
	unwell.
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P308 + P313	IF exposed or concerned: Get medical advice/ attention.
P332 + P313	If skin irritation occurs: Get medical advice/ attention.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P370 + P378	In case of fire: Use alcohol resistant foam, or if unavailable, dry chemical
	or foam for extinction.

Storage Code	Storage Statement
P403 + P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal Code	Disposal Statement
P501	Dispose of according to Local Regulations or Authorities

## Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Unsaturated polyester resin (non-stabilised)	50-75	Proprietary
Styrene	25-50	100-42-5

Section 4.	First Aid Measures
Routes of Exposure:	
If in Eyes	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice.
If on Skin	Wash with plenty of soap and water. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention.
If Swallowed	Rinse mouth. DO NOT induce vomiting. Give a glass of water. Never give anything to the mouth of an unconscious person. If vomiting occurs, place victim face downwards, with the head turned to the side and lower than the hips to prevent vomit entering the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.
If Inhaled Most important sy	Remove person to fresh air. Remove contaminated clothing and loosen remaining clothing. Allow person to assume most comfortable position and keep warm. Keep at rest until fully recovered. Get medical advice if breathing becomes difficult. mptoms and effects, both acute and delayed
Symptoms:	• • •
Ingestion: Inhalation:	Harmful if swallowed. Irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.
Skin:	This product is irritating to the skin and defatting and drying will occur on
Eye:	exposure to product vapours. Causes serious eye irritation. Contact with eyes risks overexposure to the product. Vapour may be irritating to eyes and eye tissue.
Chronic:	Suspected of causing genetic defects. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure. Elements of this product have been known to cause damage to the central nervous system, hearing impairment, and respiratory tract damage with frequent and prolonged exposure.
Advice for Doctors	Treat according to symptoms. Avoid gastric lavage: risk of aspiration of product to the lungs with the potential to cause chemical pneumonitis.

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Section 5. Fire Fighting Measures	Section 5.	Fire Fighting Measures
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Hazard Type	Flammable
Hazards from combustion products	Carbon dioxide and carbon monoxide
Suitable Extinguishing media	Alcohol resistant foam, or if unavailable, dry chemical or foam
Precautions for firefighters and special protective clothing	Full protective clothing and self-contained breathing apparatus. Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.
HAZCHEM CODE	3Y

Section 6.	Accidental Release Measures
Product Name: Polyester Date of SDS: 10 Decer	

## Personal precautions:

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

#### **Environmental precautions:**

Prevent fluid from escaping to drains and waterways. Contain leaking packaging in a containment drum. Prevent vapours from building up in confined areas. Ensure that drain valves are closed at all times.

#### Spill and Disposal procedures:

Contain the spilled liquid with sand or earth. Recover by pumping – use explosion proof pump or hand pump – or with a suitable absorbent material. Dispose of according to Local Regulations.

Section 7.	Handling and Storage
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#### **Precautions for Handling:**

- Keep out of reach of children.
- Read label before use.
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat, sparks, open flames or hot surfaces. No smoking.
- Keep container tightly closed.
- Ground, bond container and receiving equipment.
- Use explosion-proof electrical, ventilating and lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Open slowly to control possible pressure release.
- Do not breathe fumes, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective clothing.
- Use personal protective equipment as required.

#### **Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store locked up.
- Store in a cool, dry place away from direct sunlight.
- Do not pressurize, cut, heat or weld containers residual vapours are flammable.
- This product is flammable and will fuel a fire in progress.

Section 8 Exposure Controls / Personal Protection

## WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

The time weighted average concentration (TWA) for this product is: 213 mg/m3 (50pp), 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: 426 mg/m3 (100ppm), which is the maximum allowable exposure concentration at any time.

Workplace Exposure Standard – Time Weighted Average (WES-TWA). The time-weighted average exposure standard designed to protect the worker from the effects of long-term exposure. Workplace Exposure Standard – Short-Term Exposure Limit (WESSTEL). The 15-minute average exposure standard. Applies to any 15- Minute period in the working day and is designed to protect the worker against adverse effects of irritation, chronic or irreversible tissue change, or narcosis that may increase the likelihood of accidents. The WES-STEL is not an alternative to the WES-TWA; both the short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 13TH EDITION.

## Engineering Controls

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 ventilation equipment.

## Personal Protection Equipment:



Eyes	Wear safety goggles with side shields. Avoid wearing contact lenses.
Hands and Skin	Always wear long sleeves and long trousers or coveralls, and enclosed footwear or safety boots when handling this product. It is recommended that chemical resistant gloves (e.g. PVC) be worn when handling this product.
Respiratory	Where concentrations in air may 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.
General	Observe good standards of hygiene and cleanliness.

Section 9	Physical and Chemical Properties

Appostonco	Plue, turbid liquid
Appearance	Blue, turbid liquid
Odour	Not available
Odour Threshold	Not available
рН	Not available
Boiling Point	>145°C
Melting Point	Not available
Freezing Point	Not available
Flash Point	31°C
Flammability	Not available
Upper and Lower	1.0 - 6.1
Exposure Limits	
Volatile Component	Not available
Vapour Pressure	Not available
Density @ 15°C	1.05 - 1.15
Solubilities	Partially miscible with water
Partition Coefficient:	Not available
Auto-ignition	490°C
Temperature	
Decomposition	Not available
Temperature	
Viscosity @ 20ºC	500-600 cST
<b>Particle Characteristics</b>	Not available
Percent Volatiles	>30%

## Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
Conditions to Avoid	Sources of heat and ignition, open flames.
Incompatible	Oxidizing agents, mineral acids, halogenated organic
Materials/Hazardous	compounds, peroxides and metal salts
Reactions	
Hazardous Decomposition	Carbon monoxide, carbon dioxide and other organic
Products	complexes on incomplete burning or oxidation.

## Section 11 Toxicological Information

#### **Acute Effects:**

#### Swallowed

Harmful if swallowed.

Dermal	Not applicable.
Inhalation	Irritating to the respiratory tract. Exposure to large concentrations over an extended period of time will result in muscle weakness, tingling in hands and feet, blurred vision, headaches, nausea, loss of appetite, hallucinations, and possible loss of consciousness.
Еуе	Causes severe irritation to the eyes. Contact with eyes risks overexposure to the product. Vapour may be irritating to eyes and eye tissue.
Skin	This product is irritating to the skin and defatting and drying will occur on exposure to product vapours.

## Chronic Effects:

Carcinogenicity	Suspected of causing cancer.
Reproductive	Suspected of damaging fertility or the unborn child.
Toxicity	
Germ Cell	Suspected of causing genetic defects.
Mutagenicity	
Aspiration	Not applicable.
STOT/SE	Not applicable.
STOT/RE	Repeated or prolonged exposure to this product can result in acute effects being felt with greater frequency and severity. Effects of exposure may increase in intensity with subsequent use. Elements of this product have been known to cause damage to the central nervous system, hearing impairment, and respiratory tract damage with frequent and prolonged exposure.

## Individual component information:

Acute Toxicity:			
Chemical Name	Oral – LD50	Dermal – LD50	Inhalation – LC50
Styrene (100-42-5)	316 mg/kg (mouse)	-	6.8mg/l (mouse – vapour)

## Section 12. Ecotoxicological Information

Very toxic to aquatic life.

## **Aquatic Toxicity**

Fish Toxicity (rainbow trout, goldfish, bluegill):

Daphnia Magna EC50 (24 hr): Blue-green algae (Toxicity threshold 7-8 days): Green algae (Toxicity threshold 7-8 days): LC50(96hr): Styrene (Sheepshead minnow): 9100 µg/L Styrene: 4700 µg/L Styrene: 67000 µg/L Styrene: EC50: 560 µg/L

Persistence and degradability	This product is not considered to comply with international biodegradability criteria.
Bioaccumulation	No data available
Mobility in Soil	if product enters soil, it will be highly mobile and may contaminate groundwater.
Other adverse effects	No data available

Do not allow to enter waterways.

## Section 13. Disposal Considerations

**Disposal Method:** Place recovered product into an appropriate waste container for disposal through appropriate waste company or specialized landfill in accordance with local regulations. Ensure container is sealed and isolated away from ignition sources.

**Precautions:** Ensure waste container containing recovered product or contaminated spill media is labelled "Hazardous Waste – Flammable, Ecotoxic". If triple rinsing container, add rinsate to waste container for disposal.

**Disposal methods to avoid:** Do not allow to enter waterways.

#### Section 14 Transport Information

This product is classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail (ADG Code) (7th edition).

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012

#### Road, Rail, Sea and Air Transport



UN No	1866
Class - Primary	3
Packing Group	III
Proper Shipping Name	RESIN SOLUTION, Flammable
Marine Pollutant	YES
Special Provisions	If the product's individual container is below 5L/kg, it can be transported as a non-DG as long as the product packaging is still labelled as per DG requirements and the driver is given safety information in accordance with Chapter 3.4 of the UNRTDG. Special Provision: 233

#### Section 15 Regulatory Information

#### Australia:

Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia.

Classified as a **Schedule 5** Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

#### New Zealand

This substance is classified hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

EPA Approval Code: Surface Coating and Colourant (Flammable, Carcinogenic) - HSR002669

HSW (HS) Regulations 2017	Trigger Quantity
Certified Handlers	Not required
Location Certificate	Not required
Signage Trigger Quantities (Schedule 3)	100Kg
Emergency Response Plan (Schedule 5)	100Kg
Secondary Containment (Schedule 5)	100Kg
Tracking (Schedule 26)	Not required
Restrictions of use	Only use for the intended purpose.

Section 16	Other Information
Glossary	
EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.

LC <sub>50</sub>	Lethal concentration that will kill 50% of the test organisms
	inhaling or ingesting it.
LD <sub>50</sub>	Lethal dose to kill 50% of test animals/organisms.
LEL	Lower explosive level.
OSHA	American Occupational Safety and Health Administration.
TEL	Tolerable Exposure Limit.
TLV	Threshold Limit Value-an exposure limit set by responsible authority.
UEL	Upper Explosive Level
WES	Workplace Exposure Limit

References:

Australia:

- 1. Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice.
- 2. Standard for the Uniform Scheduling of Medicines and Poisons.
- 3. Australian Code for the Transport of Dangerous Goods by Road & Rail.
- 4. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
- 5. Workplace exposure standards for airborne contaminants, Safe work Australia.
- 6. American Conference of Industrial Hygienists (ACGIH).
- 7. Globally Harmonised System of classification and labelling of chemicals.

New Zealand:

- 1. EPA Hazardous Substances (Safety Data Sheets) Notice 2017
- 2. Workplace Exposure Standards and Biological Exposure Indices APRIL 2022 edition.
- 3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
- 4. Transport of Dangerous goods on land NZS 5433:2020
- 5. HSW (Hazardous Substances) Regulations 2017

Disclaimer

This document has been prepared by TCC (NZ) Ltd and serves as the suppliers Safety Data Sheet ('SDS'). It is based on information concerning the product which has been provided to TCC (NZ) Ltd or obtained from third party sources and is believed to represent the current state of knowledge as to the appropriate safety and handling precautions for the product at the time of issue. Further clarification regarding any aspect of the product should be obtained directly from the manufacturer. While TCC (NZ) have taken all due care to include accurate and up-to-date information in this SDS, it does not provide any warranty as to accuracy or completeness. As far as lawfully possible, TCC (NZ) Ltd accept no liability for any loss, injury or damage (including consequential loss) which may be suffered or incurred by any person as a consequence of their reliance on the information contained in this SDS

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Please contact the Australian Manufacturer or New Zealand distributor, if further information is required.

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