

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Deep Pour Liquid Glass Casting Resin (Hardener)**
 Product Use: Epoxy resin hardening agent
 Restriction of Use: Refer to Section 15

Australian Supplier: **Norglass Paints**
 Address: 59 Moxon Road
 Punchbowl NSW 2196
 Australia
 Telephone: +61 2 9708 2200
 Email: info@norglass.com.au

New Zealand Supplier: xxx
 Address: xxx
 Telephone: 0508 724687

Emergency Numbers:
Australia: 13 1126 (Poisons Information Centre)
New Zealand: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 30 April 2021

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 (subsidiary) – HSR002670

Pictograms



Harmful



Corrosive



Ecotoxic

Signal Word: **DANGER**

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Acute dermal toxicity Cat. 4	H312	Harmful in contact with skin.
Serious eye damage Cat. 1	H318	Causes serious eye damage.

Hazardous to the aquatic environment chronic Cat. 2	H411	Toxic to aquatic life with long lasting effects.
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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
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 as detailed in Section 8.

Response Code	Response Statement
P101	If medical advice is needed, have product container or label at hand.
P310	Immediately call a POISON CENTER or doctor/physician.
P330	Rinse mouth.
P391	Collect spillage.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage Code	Storage Statement
None allocated	

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

Section 3. Composition / Information on Ingredients

Ingredients	Wt%	CAS NUMBER.
Trimethylolpropane poly (oxypropylene)triamine	> 60%	39423-51-3

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. Get immediate medical attention.
If on Skin	Wash with plenty of soap and water. Seek medical attention if needed.
If Swallowed	Drink copious amounts of water and provide fresh air. Call a POISON CENTER or doctor/physician.
If Inhaled	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 or if you feel unwell.

Most important symptoms and effects, both acute and delayed

Symptoms:

Ingestion:	Harmful if swallowed.
Inhalation:	Not applicable.
Skin:	Harmful if in contact with skin.
Eyes:	Causes damage to eyes.
Chronic:	Not applicable.

Section 5. Fire Fighting Measures

Hazard Type	Non Flammable
Hazards from combustion products	Formation of toxic gases is possible during heating or in case of fire.
Suitable Extinguishing media	CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Do not use water with a full water jet.
Precautions for firefighters and special protective clothing	Wear full body protection and self-contained breathing apparatus.
HAZCHEM CODE	3Z

Section 6. Accidental Release Measures**Personal precautions:**

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

Environmental precautions:

Do not allow product to reach sewage system or water bodies.
Do not allow to enter the ground/soil.

Spill and Disposal procedures:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to Section 13.

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

- Read label before use.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Ensure good ventilation/exhaustion at the workplace.
- Avoid release to the environment.
- Wear protective clothing as detailed in Section 8.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10 and foodstuffs.
- Provide floor trough without outlet.
- Store in original container.
- Keep container tightly sealed.
- Keep out of reach of children.

Section 8 Exposure Controls / Personal Protection**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

Substance	TWA		STEL	
	ppm	mg/m ³	ppm	mg/m ³

No ingredients have exposure limits

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

PNECs	
39423-51-3 Trimethylolpropane poly (oxypropylene)triamine	
PNEC (predicted no effect concentration)	0.0044 mg/l (Frischwasser (freshwater)) 0.00044 mg/l (Meerwasser (seawater))

Engineering Controls

Ensure adequate ventilation.

Personal Protection Equipment



Eyes	Tightly sealed safety glasses with side shields.
Hands	Only use chemical-protective gloves with CE-labelling of category III. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Material of gloves Nitrile rubber, NBR Fluorocarbon rubber (Viton) Recommended thickness of the material: ≥ 0.5 mm Do not wear leather or strong gloves.
Skin	Protective work clothing.
Respiratory	Use breathing protection in case of insufficient ventilation. Combination filter A-P2

Section 9 Physical and Chemical Properties

Appearance	Colourless -Yellowish liquid
Odour	Amine-like
Odour Threshold	Not applicable
pH	11.6
Boiling Point	236°C
Melting Point	-20 °C
Freezing Point	Not applicable
Flash Point	218 °C
Flammability	Not applicable
Upper and Lower Exposure Limits	Not applicable
Volatile Component	Not available
Vapour Pressure @ 181°C	0.1 hPa
Density at 20°C	0.966 g/cm ³ (ISO 2811-2)
Solubility in / Miscibility with Water at 20 °C:	562 g/l
Partition Coefficient:	Not applicable
Auto-ignition Temperature	320 °C
Decomposition Temperature	Not applicable
Viscosity kinematic @ 20°C	110 mm ² /s
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

Stability of Substance	This product is stable under normal conditions.
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Conditions to Avoid	None knowns.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Products	No decomposition if used according to specifications. in the event of fire: Poisonous gases/vapours Corrosive gases/vapours

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. LD50 (rat) = 550mg/kg
Dermal	Harmful if in contact with skin. LD50(rat) = >1000mg/kg
Inhalation	Not applicable.
Eye	Causes serious eye damage.
Skin	Not applicable.

Chronic Effects:

Carcinogenicity	Not applicable
Reproductive Toxicity	Not applicable
Germ Cell Mutagenicity	Not applicable
Aspiration	Not applicable
STOT/SE	Not applicable
STOT/RE	Not applicable

Section 12. Ecotoxicological Information

GHS Classification: Hazardous to the aquatic environment chronic Cat. 2 = Toxic to aquatic life with long lasting effects.

<i>Aquatic toxicity:</i>	
<i>Trimethylolpropane poly (oxypropylene)triamine</i>	
<i>Algae toxicity</i>	4.4 mg/l (Alge <i>Scenedesmus sp.</i>) (ErC50(72h))640
<i>Bacteria toxicity</i>	1000 mg/l (<i>Belebtschlamm (activated sludge)</i>) (EC50(0,5h))
<i>Daphnia toxicity</i>	13 mg/l (<i>Daphnia magna (Wasserfloh)</i>) (EC50(48h))
<i>Fish toxicity</i>	>100 mg/l (<i>Fisch (fish)</i>) (LC50(96h))

Persistence and degradability	No data available
Bioaccumulation	No data available
Mobility in Soil	Danger to drinking water if even small quantities leak into soil.
Other adverse effects	No data available
Precautions	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water. Do not allow product to reach ground water, water bodies or sewage system. Danger to drinking water if even small quantities leak into soil. Also poisonous for fish and plankton in water bodies. Toxic for aquatic organisms. Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organism. In the dilution of the use-

level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Section 13. Disposal Considerations

Disposal Method: Dispose of liquid components at a suitable incineration plant. After curing, the product can be disposed of with household waste.

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

Section 14 Transport Information

This product is classified as a Dangerous Good for transport in NZ ; NZS 5433:2012 and Australian Dangerous Goods Code ADG7 and NOHSC:1008(2004)



Road and Rail Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Trimethylolpropane poly (oxypropylene)triamine)

Air Transport

UN No: 3082
Class-primary 9
Packing Group III
Proper Shipping Name: HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Trimethylolpropane poly (oxypropylene)triamine)

Marine Transport

UN No: 3082
Class-primary 9
Packing Group III
Marine Pollutant Yes
Proper Shipping Name: HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(Trimethylolpropane poly (oxypropylene)triamine)

Limited Quantities Statement:

If the product's individual container is below 5L, 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.

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 Coatings and Colourants (subsidiary) – HSR002670

GHS Classification:
 Acute oral toxicity Cat. 4
 Acute dermal toxicity Cat. 4
 Serious eye damage Cat. 1
 Hazardous to the aquatic environment chronic Cat. 2

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	1000L (Hazardous to the aquatic environment chronic Cat. 2)
Emergency Response Plan	1000L (Hazardous to the aquatic environment chronic Cat. 2)
Secondary Containment	1000L (Hazardous to the aquatic environment chronic Cat. 2)
Restriction of Use	Only use for the intended purpose.

Section 16 Other Information

Glossary

Cat	Category
EC ₅₀	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
HSW	Health and Safety at Work.
LC ₅₀	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD ₅₀	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. National Industrial Chemicals Notification and Assessment Scheme (NICNAS).
3. Standard for the Uniform Scheduling of Medicines and Poisons.
4. Australian Code for the Transport of Dangerous Goods by Road & Rail.
5. Model Work Health and Safety Regulations, Schedule 10: Prohibited carcinogens, restricted carcinogens and restricted hazardous chemicals.
6. Workplace exposure standards for airborne contaminants, Safe work Australia.
7. American Conference of Industrial Hygienists (ACGIH).
8. 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 Nov 2017 edition.
3. Assigning a hazardous substance to a HSNO Approval (Aug 2013).
4. Transport of Dangerous goods on land NZS 5433:2012
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

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The information herein is given in good faith, but no warranty, express or implied is made.

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

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