

SAFETY DATA SHEET

Section 1.	Identification of the material and the supplier
Product:	Liquid Glass Hardener
Item Code:	1262
UN No.	
Product Use:	Epoxy laminating Resin - Hardener
Restriction of Use:	Refer to Section 15
Australian Supplier:	Norglass Paints
Address:	59 Moxon Road
Add1033.	Punchbowl NSW 2196
	Australia
Telephone:	+61.297082200
Email:	techinfo@norglass.com.au
New Zealand Supplier	: xxx
Address:	XXX
	XXX
Telephone:	0508 724687
Emergency Number	s'
Australia:	13 1126 (Poisons Information Centre)
New Zealand:	0800 764 766 (National Poison Centre)
Date of SDS Preparati	on: 15 November 2023 v3
Continue 2	
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 (Corrosive) – HSR002658

Pictograms



Signal Word: DANGER

GHS Classification and Category	Hazard Code	Hazard Statement
Acute oral toxicity Cat. 4	H302	Harmful if swallowed.
Acute inhalation toxicity Cat. 4	H332	Harmful if inhaled.
Skin sensitisation Cat. 1	H317	May cause an allergic skin reaction.

Skin corrosion Cat. 1B	H314	Causes severe skin burns and eye damage.
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Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P260	Do not breathe fumes, mist, vapours or spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective clothing.

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.
P363	Wash contaminated clothing before reuse.
P301 + P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P301 +	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P330+P331	
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 +	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
P361+P353	clothing. Rinse skin with water/shower.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P351+P338	contact lenses, if present and easy to do. Continue rinsing.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.

Storage Code	Storage Statement
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.
Benzyl alcohol	25 - 50	100-51-6
3-aminomethyl-3,5,5-	25 - 50	2855-13-2
trimethylcyclohexylamine		
Trimethylhexan-1,6-diamin	<u><</u> 2.5	25620-58-0

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. Take off contaminated clothing and wash before re-use. If skin irritation occurs: get medical advice/attention. Immediately call a POISON CENTER or doctor/physician.
- If Swallowed Rinse mouth. Do NOT induce vomiting. If the victim is conscious give water or milk to drink to dilute the effect. 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. Immediately 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. Irritate mouth, throat and digestive tract. May cause burning sensation and severe damage to mucous membrane owing to presence of Phenol. Moderately toxic.		
Inhalation:	Harmful if inhaled. Vapour will irritate eye and respiratory system. Cause headaches and dizziness.		
Skin:	Causes skin burns and eye damage. Prolonged and repeated exposure may cause asthma and skin sensitisation or other allergic response.		
Eye: Chronic:	Liquid may cause burns and severe eye irritation.		

Section 5.	Fire Fighting Measures
Hazard Type	Non Flammable
Hazards from combustion	Formation of toxic gases is possible during heating or in case of fire.
products	
Suitable Extinguishing	CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
media	For safety reasons unsuitable extinguishing agents Water with a full water jet.
Precautions for firefighters and special protective clothing	Wear full body protection and self-contained breathing apparatus.
HAZCHEM CODE	2X

Section 6. Accidental Release Measures

Personal precautions:

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

Environmental precautions:

Adequate steps should be taken to prevent spillage reaching waterways and drains.

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 carefully and follow all instructions.
- Do not breathe fumes, mist, vapours or spray.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing.

Precautions for Storage:

• Store away from incompatible materials listed in Section 10.

- Store locked up, in a well-ventilated place. Keep cool.
- Store in original container.
- Keep out of reach of children.

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

	TWA	STEL
Substance	ppm mg/m³	ppm mg/m ³

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

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

Use only in well ventilated areas.

Personal Protection Equipment

-	T ' I I C I

Eyes	Tightly sealed safety glasses with side shields.
Hands and Skin	Preventive skin protection by use of skin-protecting agents is recommended. Material of gloves: Nitrile rubber, NBR and Fluorocarbon rubber (Viton) Recommended thickness of the material: ≥ 0.5 mm Do not wear leather gloves. Protective clothing is recommended.
Respiratory	Use breathing protection in case of insufficient ventilation. Combination Filter A-P2

Section 9 Physical and Chemical Properties

Appearance	Yellowish liquid
Odour	Amine-like
Odour Threshold	Not applicable
рН	Not applicable
Boiling Point	>200°C
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	>100°C
Flammability	Not applicable
Upper and Lower	1.2% - 13.0%
Exposure Limits	
Volatile Component	Not available
Vapour Pressure @	0.1 hPa
20ºC	
Density at 23°C	1.02 g/cm ³
Solubilities	Not miscible or difficult to mix
Partition Coefficient:	Not applicable
Auto-ignition	380°C
Temperature	
Decomposition	Not applicable
Temperature	

Viscosity dynamic @ 23°C	530 mPas (ISO 3219)
Particle Characteristics	Not applicable

Section 10. Stability and Reactivity

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

Section 11 Toxicological Information

Acute Effects:

Swallowed	Harmful if swallowed. Irritate mouth, throat and digestive tract. May cause burning sensation and severe damage to mucous membrane owing to presence of Phenol.	
Dermal	Not applicable.	
Inhalation	Harmful if inhaled. Vapour will irritate eye and respiratory system. Cause headaches and dizziness.	
Eye	Causes serious eye damage.	
Skin	Causes severe skin burns. Prolonged and repeated exposure may cause asthma and skin sensitisation or other allergic response.	

Chronic Effects:

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

Section 12. Ecotoxicological Information

This product is not hazardous to the environment.

Aquatic toxicity:		
100-51-6 Benzyl a	Icohol	
Algentoxizität	79 mg/l (Scenedesmus quadricauda) (EC50(3h))	
	640 mg/l (Alge Scenedesmus sp.) (EC50(96h))	
Bakterien-Toxizität	>658 mg/l (Pseudomonas putida) (EC50(16h))	
	71.42 mg/l (Photobacterium phosphoreum) (EC50(0,5h)) 400	
	mg/l (Pseudomonas putida) (EC50(0,5h))	
Donbniontovi si töt	400 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h))	
Daphnientoxizität	460 mg/l (Pimephales promelas) (LC50(96h))	
Fischtoxizität	645 mg/l (Goldorfe (orfe)) (LC50(96h))	
	10 mg/l (Lepomis macrochirus) (LC50 (96h))	
2855-13-2 3-amino	2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine	

Algentoxizität	50 mg/l (Scenedesmus subspicatus) (EC50(72h))
Bakterien-Toxizität	1120 mg/l (Pseudomonas putida) (EC10(18h))
Daphnientoxizität	23 mg/l (Daphnia magna (Wasserfloh)) (EC50(48h))
Fischtoxizität	110 mg/l (Brachydanio rerio) (LC50(96h))
25620-58-0 Trimet	hylhexan-1,6-diamin
Algentoxizität	29.5 mg/l (Scenedesmus subspicatus) (EC50(72h)) 72
Bakterien-Toxizität	mg/l (Pseudomonas putida) (EC10(16h))
Daphnientoxizität	31.5 mg/l (Daphnia magna (Wasserfloh)) (EC50(24h))
Fischtoxizität	174 mg/l (Leuciscus idus) (LC50(48h))

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	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 is labelled "Hazardous Waste –Corrosive. 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 5433:2020



Road, Rail, Sea and Air Transport

· · · · · ·	0705
UN No	2735
Class - Primary	8
Packing Group	II
Proper Shipping Name	AMINES, LIQUID, CORROSIVE, N . O . S .
	(ISOPHORONEDIAMINE)
Marine Pollutant	No
Special Provisions	If the product's individual container is below 1L/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.

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 (Corrosive) – HSR002658

HSW (HS) Regulations 2017 and EPA Notices	Trigger Quantity
Certified Handler	Not required
Location Certificate	250L
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	Only use for the intended purpose.

Other Information
Median effective concentration.
Environmental Exposure Limit.
Environmental Protection Authority
Hazardous Substances and New Organisms.
Health and Safety at Work.
Lethal concentration that will kill 50% of the test organisms
inhaling or ingesting it.
Lethal dose to kill 50% of test animals/organisms.
Lower explosive level.
American Occupational Safety and Health Administration.
Tolerable Exposure Limit.
Threshold Limit Value-an exposure limit set by responsible
authority.
Upper Explosive Level
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

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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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