

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 Manufacturer: **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
New Zealand: 0800 764 766 (National Poison Centre)

Date of SDS Preparation: 26 January 2017 v3

Section 2. Hazards Identification

This substance is hazardous according to:
New Zealand - The HSNO (Minimum Degrees of Hazard) Regulations 2001
Australia – Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

New Zealand:

EPA Approval No: Surface Coatings and Colourants (Corrosive) – HSR002658

Pictograms

Toxic/Irritant Corrosive

Signal Word: **DANGER**

HSNO Classification	Hazard Code	Hazard Statement	GHS Category
6.1D (oral)	H302	Harmful if swallowed.	Category 4
6.1D (inh)	H332	Harmful if inhaled.	Category 4

6.5B	H317	May cause an allergic skin reaction.	Category 1
8.2B	H314	Causes severe skin burns and eye damage.	Category 1B

Prevention Code	Prevention Statement
P102	Keep out of reach of children.
P103	Read label before use.
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 + P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P303 + P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated 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 + P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove 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-trimethylcyclohexylamine	25 - 50	2855-13-2
Trimethylhexan-1,6-diamin	<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. If skin irritation or rash occurs: Get medical advice/attention.

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.

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	CO ₂ , extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. 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

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose of contaminated material as waste according to Section 13. Adequate steps should be taken to prevent spillage reaching waterways and drains.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- 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

WORKPLACE EXPOSURE STANDARDS (provided for guidance only)

Substance	TWA		STEL	
	ppm	mg/m ³	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.

Engineering Controls

Use only in well ventilated areas.

Personal Protection

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
pH	Not applicable
Boiling Point	$> 200^{\circ}\text{C}$
Melting Point	Not applicable
Freezing Point	Not applicable
Flash Point	$> 100^{\circ}\text{C}$
Flammability	Not applicable
Upper and Lower Exposure Limits	1.2% - 13.0%
Volatile Component	Not available
Vapour Pressure @ 20°C	0.1 hPa
Density at 23°C	1.02 g/cm ³
Solubilities	Not miscible or difficult to mix
Partition Coefficient:	Not applicable
Auto-ignition Temperature	380°C
Decomposition Temperature	Not applicable
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 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.
Dermal	Not applicable.

Inhalation	Harmful if inhaled.
Eye	Causes serious eye damage.
Skin	Causes severe skin burns and eye damage.

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

This product is not hazardous to the environment.

<i>Aquatic toxicity:</i>	
<i>100-51-6 Benzyl alcohol</i>	
<i>Algentoxizität</i>	79 mg/l (<i>Scenedesmus quadricauda</i>) (EC50(3h)) 640 mg/l (<i>Alge Scenedesmus sp.</i>) (EC50(96h))
<i>Bakterien-Toxizität</i>	>658 mg/l (<i>Pseudomonas putida</i>) (EC50(16h)) 71.42 mg/l (<i>Photobacterium phosphoreum</i>) (EC50(0,5h))
<i>Toxizität</i>	400 mg/l (<i>Pseudomonas putida</i>) (EC50(0,5h)) 400 mg/l (<i>Daphnia magna</i> (Wasserfloh)) (EC50(24h)) 460 mg/l (<i>Pimephales promelas</i>) (LC50(96h))
<i>Daphnientoxizität</i>	645 mg/l (<i>Goldorfe (orfe)</i>) (LC50(96h)) 10 mg/l (<i>Lepomis macrochirus</i>) (LC50 (96h))
<i>Fischtoxizität</i>	
<i>2855-13-2 3-aminomethyl-3,5,5-trimethylcyclohexylamine</i>	
<i>Algentoxizität</i>	50 mg/l (<i>Scenedesmus subspicatus</i>) (EC50(72h))
<i>Bakterien-Toxizität</i>	1120 mg/l (<i>Pseudomonas putida</i>) (EC10(18h))
<i>Toxizität</i>	23 mg/l (<i>Daphnia magna</i> (Wasserfloh)) (EC50(48h))
<i>Daphnientoxizität</i>	110 mg/l (<i>Brachydanio rerio</i>) (LC50(96h))
<i>Fischtoxizität</i>	
<i>6620-93-0 Trimethylhexan-1,6-diamin</i>	
<i>Algentoxizität</i>	29.5 mg/l (<i>Scenedesmus subspicatus</i>) (EC50(72h))
<i>Bakterien-Toxizität</i>	72 mg/l (<i>Pseudomonas putida</i>) (EC10(16h))
<i>Toxizität</i>	31.5 mg/l (<i>Daphnia magna</i> (Wasserfloh)) (EC50(24h))
<i>Daphnientoxizität</i>	174 mg/l (<i>Leuciscus idus</i>) (LC50(48h))
<i>Fischtoxizität</i>	

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

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 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: 2735
Class-primary 8
Packing Group III
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N . O . S .
(ISOPHORONEDIAMINE)

Air Transport

UN No: 2735
Class-primary 8
Packing Group III
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N . O . S .
(ISOPHORONEDIAMINE)

Marine Transport

UN No: 2735
Class-primary 8
Packing Group III
Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N . O . S .
(ISOPHORONEDIAMINE)

Section 15 Regulatory Information

This substance is hazardous according to:
New Zealand - The HSNO (Minimum Degrees of Hazard) Regulations 2001
Australia – Globally Harmonised System of Classification and Labelling of Chemicals, 3rd Revised Edition

Poison Schedule: Schedule 5

New Zealand:

EPA Approval Code: Surface Coatings and Colourants (Corrosive) – HSR002658

HSNO Classification: 6.1D(oral, inh), 6.5B, 8.2B

HSNO Controls:

Trigger quantities for this substance:

	Trigger Quantity
Approved Handler	Not required
Location Certificate	Not required
Tracking Trigger Quantities	Not required
Signage Trigger Quantities	250L
Emergency Response Plan	1000L
Secondary Containment	1000L
Restriction of Use	None

Glossary

EC50	Median effective concentration.
EEL	Environmental Exposure Limit.
EPA	Environmental Protection Authority
HSNO	Hazardous Substances and New Organisms.
LC50	Lethal concentration that will kill 50% of the test organisms inhaling or ingesting it.
LD50	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

1. HSNO Approved Code of Practice: Preparation of Safety Data Sheets, September 2006.
2. Australia – Approved Criteria for Classifying Hazardous Substances -[NOHSC:1008(2004)]
3. Safework Australia: Preparation of SDS sheets for hazardous chemicals (Code of Practice).

Disclaimer

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Please contact the Australian manufacturer, if further information is required.

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26 January 2017

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