

SAFETY DATA SHEET

Section 1. Identification of the material and the supplier

Product: **Norflex Epoxy Filler Hardener**
 Item Code: 1195
 Product Use: Epoxy Filler Hardener
 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: 15 November 2018 v2

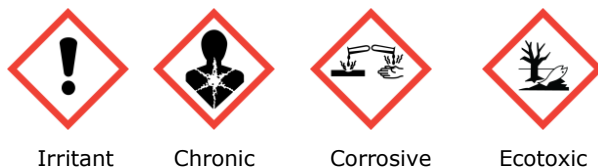
Section 2. Hazards Identification

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 2017

EPA Approval No: Surface Coatings and Colourants (subsidiary) – HSR002670

Pictograms



Signal Word: DANGER

| HSNO Classification | Hazard Code | Hazard Statement | GHS Category |
|---------------------|-------------|--------------------------------------|--------------|
| 6.1E (oral) | H303 | May be harmful if swallowed. | Acute Tox. 5 |
| 6.1E (dermal) | H313 | May be harmful in contact with skin. | Acute Tox. 5 |

| | | | |
|------|------|--|-------------------|
| 6.3A | H315 | Causes skin irritation. | Skin Irrit. 2 |
| 6.5B | H317 | May cause an allergic skin reaction. | Skin Sens. 1 |
| 6.9B | H373 | May cause damage to organs through prolonged or repeated exposure. | STOT RE 2 |
| 8.3A | H318 | Causes serious eye damage. | Eye Corr. 1 |
| 9.1B | H411 | Toxic to aquatic life with long lasting effects. | Aquatic Chronic 2 |

| Prevention Code | Prevention Statement |
|-----------------|--|
| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P260 | Do not breathe fumes, gas, mist or vapours. |
| P264 | Wash hands thoroughly after handling. |
| P272 | Contaminated work clothing should not be allowed out of the workplace. |
| 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. |
| P310 | Immediately call a POISON CENTER or doctor/physician. |
| P362 | Take off contaminated clothing and wash before re-use. |
| P391 | Collect spillage. |
| 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. |
| P333 + P313 | If skin irritation or rash occurs: Get medical advice/ attention. |

| 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. |
|--------------------------------|-------|-------------|
| Polyamide Resin | 40-45 | Proprietary |
| Fillers various | 30-40 | Proprietary |
| Modified cyclo-aliphatic amine | 20-35 | Proprietary |
| Pine Oil | 3-6 | Proprietary |

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 or rash occurs: get medical advice/attention. |
| If Swallowed | Rinse mouth. 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. Seek medical attention if you feel unwell. |

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: Product contain aliphatic amine - Munnich Base curing agent. Phenol and amines present in curing agent is considered toxic if ingested. Simple preventive measures and following label instructions will prevent adverse effects.

Ingestion: May be harmful if swallowed. Irritate mouth, throat and digestive track.

Inhalation: None likely unless the product is heated. Fumes will irritate nose and throat.

Skin: May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction.

Eye: Causes serious eye irritation.

Chronic: May cause damage to organs through prolonged or repeated exposure.

Section 5. Fire Fighting Measures

| | |
|---|--|
| Hazard Type | Non Flammable |
| Hazards from combustion products | Oxides of carbon and nitrogen |
| Suitable Extinguishing media | Use foam, carbon dioxide or Dry Chemicals or water fog to extinguish flames. |
| 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.

Environmental precautions:

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

Spill and Disposal procedures:

Extinguish all sources of ignition. Spilt material should be absorbed into dry inert material such as sand, earth or sawdust and disposed by incineration by approved agent or local regulations.

Section 7. Handling and Storage

Precautions for Handling:

- Read label before use.
- Do not handle until all safety precautions have been read and understood.
- Keep container tightly closed.
- Do not breathe fumes, gas, mist or vapours.
- Wash hands thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Wear protective clothing.
- Use personal protective equipment as required.

Precautions for Storage:

- Store away from incompatible materials listed in Section 10.
- Keep cool and container closed.
- 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 known 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 short-term and time-weighted average exposures apply. Workplace Exposure Standards and Biological Exposure Indices NOV 2017 9TH EDITION.

Engineering Controls

Good ventilation should be sufficient in most conditions.

However, if the material is to be heated or sanded, local ventilation is required.

Personal Protection Equipment



| | |
|-----------------------|--|
| Eyes | Wear safety goggles with side shields. |
| Hands and Skin | Wear chemical resistant gloves. Wear overalls and use barrier cream. |
| Respiratory | Avoid breathing vapour of dust by wearing AS1716 approved respirators. |

Section 9 Physical and Chemical Properties

| | |
|--|-----------------------------|
| Appearance | Amber colour viscous liquid |
| Odour | Amine odour |
| Odour Threshold | Not applicable |
| pH | Not applicable |
| Boiling Point | Not measured |
| Melting Point | Not applicable |
| Freezing Point | Not applicable |
| Flash Point | Not measured |
| Flammability | Not applicable |
| Upper and Lower Exposure Limits | Not applicable |
| Volatile Component | Not applicable |
| Vapour Density | Not applicable |
| Specific Gravity | 1.07 |
| Solubilities | Miscible in water |
| Partition Coefficient: | Not applicable |
| Auto-ignition Temperature | Not applicable |
| Decomposition Temperature | Not applicable |
| Kinematic Viscosity | Not applicable |
| Particle Characteristics | Not applicable |

Section 10. Stability and Reactivity

| | |
|---|---|
| Stability of Substance | This product is stable under normal conditions. |
| Conditions to Avoid | Extreme temperatures |
| Incompatible Materials | Reacts with resins. Strong oxidisers, acids, bases. |
| Hazardous Decomposition Products | Oxides of carbon and nitrogen |

Section 11 Toxicological Information

Acute Effects:

| | |
|-------------------|--|
| Swallowed | May be harmful if swallowed. Irritate mouth, throat and digestive track. |
| Dermal | May be harmful in contact with skin. |
| Inhalation | None likely unless the product is heated. Fumes will irritate nose and throat. |
| Eye | Causes serious eye damage. |
| Skin | Causes skin irritation. May cause an allergic reaction. |

Chronic Effects:

| | |
|-------------------------------|---|
| Carcinogenicity | Not applicable |
| Reproductive Toxicity | Not applicable. |
| Germ Cell Mutagenicity | Not applicable. |
| Aspiration | Not applicable. |
| STOT/SE | Not applicable. |
| STOT/RE | Causes damage to organs through prolonged or repeated exposure. |

General: Product contain aliphatic amine - Munnich Base curing agent. Phenol and amines present in curing agent is considered toxic if ingested. Simple preventive measures and following label instructions will prevent adverse effects.

Section 12. Ecotoxicological Information

New Zealand:

HSNO Classes: 9.1B = Toxic to aquatic life with long lasting effects.

| | |
|--------------------------------------|---|
| Persistence and degradability | No data available |
| Bioaccumulation | No data available |
| Mobility in Soil | No data available |
| 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 – "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 and Rail Transport

UN No: 3082
Class-primary: 9
Packing Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S

Air Transport

UN No: 3082
Class-primary: 9
Packing Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S

Marine Transport

UN No: 3082
Class-primary: 9
Packing Group: III
Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS LIQUID, N.O.S

Limited Quantities Statement:

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.

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 2017

EPA Approval Code: Surface Coatings and Colourants (subsidiary) – HSR002670

HSNO Classification: 6.1E(oral, dermal), 6.3A, 6.5B, 6.9B, 8.3A, 9.1B

| 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 (9.1B) |
| Emergency Response Plan | 1000L (9.1B) |
| Secondary Containment | 1000L (9.1B) |
| Restriction of Use | Only use for the intended purpose. |

Glossary

| | |
|------------------|---|
| 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 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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15 November 2018

Review Date:

15 November 2023