# SAFETY DATA SHEET

## Section 1. Identification of the material and the supplier

| | |
|---|---|
| Product: | **Norshield Anti-Corrosive Primer Base** |
| Item Code: | 4070 |
| Product Use: | As a primer for ferrous and non-ferrous metals. Applied by brush, roller or spray. |
| Restriction of Use: | Refer to Section 15 |
| Australian Supplier: | **Norglass Paints** |
| Address: | 59 Moxon Road<br>Punchbowl NSW 2196<br>Australia |
| Telephone: | +61 2 9708 2200 |
| Email: | techinfo@norglass.com.au |
| New Zealand Supplier: | xxx |
| Address: | xxx<br>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 2023 v3 |

## 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**

Signal Word: **DANGER**

| GHS Classification and Category | Hazard Code | Hazard Statement |
|---|---|---|
| Flammable Liquids Cat. 3 | H226 | Flammable liquid and vapour. |
| Aspiration hazard Cat. 1 | H304 | May be fatal if swallowed and enters airways. |

| | | |
|---|---|---|
| Skin irritation Cat. 2 | H315 | Causes skin irritation. |
| Skin sensitisation Cat. 1 | H317 | May cause an allergic skin reaction. |
| 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. 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |
| Serious eye damage Cat. 1 | H318 | Causes serious eye damage. |
| Hazardous to the aquatic environment chronic Cat. 4 | H402 | Harmful to aquatic life. |
| Hazardous to terrestrial vertebrates | H433 | Hazardous to terrestrial vertebrates |

| **Prevention Code** | **Prevention Statement** |
|---|---|
| P102 | Keep out of reach of children. |
| P103 | Read carefully and follow all instructions. |
| 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/lighting. |
| P242 | Use only non-sparking tools. |
| P243 | Take precautionary measures against static discharge. |
| P260 | Do not breathe dust, fume, 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. |
| P281 | Use personal protective equipment as required. |

| **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. |
| P331 | Do NOT induce vomiting. |
| P362 | Take off contaminated clothing and wash before re-use. |
| P301 + P310 | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. |
| P303 + P361+P353 | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |
| P370 + P378 | In case of fire: Use carbon dioxide, foam or dry chemicals for extinction. |

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

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

## Section 3. Composition / Information on Ingredients

| **Ingredients** | **Cas No** | **Weight.** |
|---|---|---|
| Pigments and Extenders | Proprietary | 58% |

| | | |
|---|---|---|
| Bisphenol A Epoxy Resin Solid | 25068-38-6 | 14% |
| Xylene | 1330-20-7 | 15.7% |
| Glycol ether | 107-98-2 | 5.9% |
| Butanol | 78-83-1 | 5.2% |
| Butylated Urea Formaldehyde Resin solid | 68002-18-6 | 1.2% |

## 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. Immediately call a POISON CENTER or doctor/physician.

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. 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. Seek immediate medical attention.

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.

**Most important symptoms and effects, both acute and delayed**

Symptoms:

**Ingestion:** Not applicable.
**Inhalation:** Not applicable.
**Skin:** Causes skin irritation. May cause an allergic skin reaction.
**Eye:** Causes serious eye damage.
**Chronic:** May be fatal if swallowed and enters airways.
Suspected of damaging fertility or the unborn child. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure. Contact with product may develop allergic reactions in some individuals and dermatitis or Asthma like symptoms. Inhalation of vapours may cause headaches and nausea.

## Section 5. Fire Fighting Measures

| | |
|---|---|
| **Hazard Type** | Flammable liquid vapours can explode in air if ignited. |
| **Hazards from combustion products** | Toxic gases and vapours can be formed on burning. |
| **Suitable Extinguishing media** | Extinguishing media carbon dioxide, foam or dry chemicals. |
| **Precautions for firefighters and special protective clothing** | Wear full body protection and self-contained breathing apparatus. Wear self-contained breathing apparatus and full protective clothing. Cured material made using this product if machined or sanded, a dust explosion hazard may be created. Hence, all dust generated should be removed as quickly as possible preferably by vacuum cleaner. |
| **HAZCHEM CODE** | **3Y** |

## Section 6. Accidental Release Measures

**Personal precautions:**
Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel.

**Environmental precautions:**
Do not discharge into drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Notify authorities if product enters sewers or public waters.

**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 carefully and follow all instructions.
- 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 only outdoors or in a well-ventilated area.
- Use explosion-proof electrical/ventilating/lighting.
- Use only non-sparking tools.
- Take precautionary measures against static discharge.
- Do not breathe dust, fume, gas, mist or vapours.
- Wash hands thoroughly after handling.
- Contaminated work clothing should not be allowed out of the workplace.
- Wear protective clothing and equipment.

**Precautions for Storage:**

- Store away from incompatible materials listed in Section 10.
- Store locked up, in a well-ventilated place. Keep cool.
- Product should be stored in properly sealed containers, if at all, not used in one application.
- Keep out of reach of children.

## Section 8 Exposure Controls / Personal Protection

**WORKPLACE EXPOSURE STANDARDS (provided for guidance only)**

| Substance | TWA ppm | TWA mg/m³ | STEL ppm | STEL mg/m³ |
|---|---|---|---|---|
| Xylene | 50 | 217 | - | - |
| Propylene glycol monomethyl ether [107-98-2] | 100 | 369 | 150 | 553 |
| Isobutyl alcohol [78-83-1] | 50 | 152 | - | - |

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**

| | |
|---|---|
| **Eyes** | Wear safety goggles with side shields. |
| **Hands and Skin** | Wear neoprene rubber gloves. Wear overalls and use barrier cream. |
| **Respiratory** | Avoid breathing solvent vapours by wearing organic vapour respirators. Do not use disposable dust masks. |

## Section 9 Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Red pigmented viscous liquid |
| **Odour** | Solvent odour |
| **Odour Threshold** | Not applicable |
| **pH** | Not applicable |
| **Boiling Point** | 137-143$^0$C for solvent |
| **Melting Point** | Not applicable |
| **Freezing Point** | Not applicable |
| **Flash Point** | 38$^0$C(solvent) |
| **Flammability** | Not applicable |
| **Upper and Lower Exposure Limits** | Not applicable |
| **Volatile Component** | 18.5 |
| **Vapour Pressure 25$^0$C** | Not applicable |
| **Specific Gravity** | 1.745 |
| **Solubilities** | Insoluble |
| **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** | Sources of ignition. Heat. |
| **Incompatible Materials** | None known. |
| **Hazardous Decomposition Products** | None known. |

## Section 11 Toxicological Information

**Acute Effects:**

| | |
|---|---|
| **Swallowed** | Not applicable. |
| **Dermal** | Not applicable. |
| **Inhalation** | Not applicable. |
| **Eye** | Causes severe eye damage. |
| **Skin** | Causes skin irritation. May cause an allergic skin reaction. |

**Chronic Effects:**

| | |
|---|---|
| **Carcinogenicity** | Suspected of causing cancer. |
| **Reproductive Toxicity** | Suspected of damaging fertility or the unborn child. |
| **Germ Cell Mutagenicity** | Not applicable. |
| **Aspiration** | May be fatal if swallowed and enters airways. |
| **STOT/SE** | Not applicable. |
| **STOT/RE** | Causes damage to organs through prolonged or repeated exposure. |

**Individual component information:**

**Acute Toxicity:**

| Chemical Name | Oral – LD50 | Dermal – LD50 | Inhalation – LC50 |
|---|---|---|---|
| Xylene (1330-20-7) | 1590 mg/kg (mouse) | - | >27.6mg/L(Rat) Vapour |
| Glycol ether (107-98-2) | 4600-5000mg/kg (Dog) | - | - |
| Butanol (78-83-1) | 2460mg/kg(Rat) | 3400mg/kg (rabbit) | - |

## Section 12. Ecotoxicological Information

Harmful to aquatic life.
Hazardous to terrestrial vertebrates.

| | |
|---|---|
| **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. |

**Individual component information (Please refer to www.epa.govt.co.nz for full details):**

**Xylene (1330-20-7):**

| Route | Species | Duration | Value LC50/EC50 |
|---|---|---|---|
| Fish | Oncorhynchus mykiss Rainbow trout, donaldson trout | 96 hr (static | 3.3 mg/L |
| Crustacean | Palaemonetes pugio (Crustacea) | 48 hr | 8.5mg/L |
| Algal | Skeletonema costatum (Algae) | 72hr (static) | 10mg/L |
| Bioaccumulative | No | | |
| Rapidly Degradable | Yes | | |

## 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 – 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 5433:2020**

**Road, Rail, Sea and Air Transport**

| | |
|---|---|
| **UN No** | 1263 |
| **Class - Primary** | 3 |
| **Packing Group** | III |
| **Proper Shipping Name** | PAINT |

| | |
|---|---|
| **Marine Pollutant** | No |
| **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. |

## 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 (Flammable, Carcinogenic) – HSR002669

| HSW (HS) Regulations 2017 and EPA Notices | Trigger Quantity |
|---|---|
| Certified Handler | Not required |
| Location Certificate | 500L (>5L), 1500L(<5L), 250L open |
| Tracking Trigger Quantities | Not required |
| Signage Trigger Quantities | 1000L |
| Emergency Response Plan | 1000L |
| Secondary Containment | 1000L |
| Restriction of Use | Only use for the intended purpose. |

## Section 16 Other Information

**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. 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

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

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