# SAFETY DATA SHEET

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

| | |
|---|---|
| Product: | **Metallics** |
| Colours: | Gold, Silver, Ocean Blue, Dark Blue, White, Bright Red, Purple, Black, Green |
| Product Use: | Inorganic pigment for mixing with organic polymers |
| 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: | info@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: | 10 July 2024 |

## Section 2. Hazards Identification

**Australia:**
NOT 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 NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

## Section 3. Composition / Information on Ingredients

| Ingredients | Wt% | CAS NUMBER. |
|---|---|---|
| Titanium Dioxide | 0 - 50 | 13463-67-7 |
| Ingredients determined not to be hazardous | To bal | |

## Section 4. First Aid Measures

Routes of Exposure:

If in Eyes: If in eyes, hold eyelids apart and flush the eye continuously with running water. Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes. If irritation develops seek medical attention.

If on Skin — For gross contamination immediately drench with water and remove clothing. Continue to flush skin and hair with plenty of water and soap. Immediately remove contaminated clothing and wash before reuse. If irritation develops seek medical attention.

If Swallowed — Immediately rinse mouth with water. Do not give fluids or induce vomiting if patient is unconscious or is having convulsions. If swallowed DO NOT induce vomiting. Never give anything by mouth to an unconscious patient. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration into the lungs. If poisoning occurs, consult a doctor or contact a Poisons Information Centre.

If Inhaled — Remove victim from exposure – avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered. Seek medical advice if effects occur.

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

Symptoms: None known.

**Advice to Doctor:** No specific antidote. Treat symptomatically. Poisons Information Centre in each Australian State capital city can provide additional assistance for scheduled poisons.

## Section 5. Fire Fighting Measures

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|---|---|
| **Hazard Type** | Non Flammable and not combustible. |
| **Hazards from combustion products** | None known. |
| **Suitable Extinguishing media** | Product is not combustible; however normal foam can be used to extinguish fire. Also, dry chemical or carbon dioxide may be used to extinguish small fires. Water may be ineffective but should be used to cool fire-exposed containers, structures and to protect personnel. |
| **Precautions for firefighters and special protective clothing** | If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. Firefighters should wear full fire kit including safety boots, non-flammable overalls, gloves, hat, goggles, and positive pressure self-contained breathing equipment. Heating can cause expansion or decomposition of the material which can lead to the container(s) exploding. If safe to do so, remove container(s) from the path of the fire if it can be done without risk. Do not scatter spilled material with high pressure water streams. Dyke for later disposal. Use extinguishing agents for surrounding fire. Avoid inhalation of material or combustion by-products. Stay upwind and keep out of low areas. |
| **HAZCHEM CODE** | **None Allocated** |

## Section 6. Accidental Release Measures

Wear protective equipment as detailed in Section 8. Clear area of any unprotected personnel. In case of spill, particular danger of slipping on leaked/spilled product.

Do not allow to enter drainage system, surface or ground water. In the event of product entering waters or drainage system, or polluting soil or plants contact the Environmental Protection Authority or your local Waste Management Authority.

Spilt material should be absorbed into dry, inert material (e.g. sand, vermiculite, diatomite, etc.), which then can be put into appropriately labelled drums. Residual can be removed with solvent. Solvents are not recommended for cleanup unless the recommended exposure guidelines and safe handling practices for the specific solvent are followed. Consult appropriate solvent Safety Data Sheet for handling information and exposure guidelines. The wasted

material can be disposed of by incineration (preferably high temperature) by an approved agent according to local conditions.

## Section 7. Handling and Storage

**Precautions for Handling:**

- Avoid spills – particular danger of slipping on leaked/spilled product.
- Avoid all personal contact, including skin and eye contact and inhalation.
- Wear protective clothing when risk of exposure occurs.
- Use in a well-ventilated area. Avoid contact with incompatible materials.
- When handling, DO NOT eat, drink or smoke.
- Keep containers closed at all times.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately. Launder contaminated clothing before re-use.

**Precautions for Storage:**

- Store in a well-ventilated area.
- Store in a cool, dry place and out of direct sunlight.
- Store away from incompatible substances including explosive substances.
- Keep containers closed at all times – check regularly for leaks.
- Containers, even those that have been emptied, can contain residual product and
- should be cleaned prior to disposal.
- Product should be disposed of by incineration (preferably high temperature) by an approved agent according to local conditions.

## Section 8 Exposure Controls / Personal Protection

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

| Substance | | TWA ppm | TWA mg/m³ | STEL ppm | STEL mg/m³ |
|---|---|---|---|---|---|
| Titanium dioxide | [13463-67-7] | - | 10 | - | - |

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 2023 14TH EDITION.

**Engineering Controls**

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

**Personal Protection Equipment:**

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|---|---|
| **Eyes** | The use of face shields, chemical goggles, or safety glasses with side shield protection (meeting the requirements of AS/NZS 1337) is recommended. If exposed to dust or fume, wear dust-tight goggles (meeting the requirements of AS/NZS 1337). |
| **Hands** | Chemical resistant gloves (e.g. Butyl, Neoprene, PE/EVAL/PE, Viton gloves >1 mm thickness, complying with AS 2161) should be suitable for intermittent contact. However, due to variations in glove construction and local conditions, the user should make a final assessment. Gloves should be |

| | |
|---|---|
| | removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. Barrier cream applied before work may make it easier to clean the skin after exposure, but does not prevent absorption through the skin. |
| **Body** | Suitable protective clothing complying with AS 4501, suitable chemical resistant footwear complying with AS/NZS 2210 are recommended. |
| **Respiratory** | Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions no respiratory protection should be needed; however, if discomfort is experienced use an approved air purifying respirator (with Class P3 filter for particulates) meeting the requirements of AS/NZS 1715 and AS/NZS 1716. |

## Section 9 Physical and Chemical Properties

| | |
|---|---|
| **Appearance** | Fine Powder |
| **Colour** | Various Colours |
| **Odour** | Odourless |
| **Odour Threshold** | Not available |
| **pH** | 6.0 – 9.0 (4% dispersion in water) |
| **Boiling Point** | Not available |
| **Melting Point** | Not available |
| **Freezing Point** | Not available |
| **Flash Point** | Not available |
| **Flammability** | Non flammable |
| **Lower to upper Flammable Limits** | Not available |
| **Vapour Pressure** | Not available |
| **Vapour Density** | Not available |
| **Density** | Ca. 2.9-3.2 kg/L |
| **Bulk Density** | Ca. 16-28g/100g |
| **Solubilities** | Insoluble in water |
| **Partition Coefficient:** | Not applicable |
| **Auto-ignition Temperature** | Not applicable |
| **Decomposition Temperature** | Not applicable |
| **Kinematic Viscosity** | Not applicable |
| **Particle Size** | 10-60 µm. |
| **Mass-Median-Diameter, D50** | 21-26 µm. |

## Section 10. Stability and Reactivity

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|---|---|
| **Stability of Substance** | Stable under normal conditions of storage and handling. |
| **Conditions to Avoid** | No further relevant information available. |
| **Incompatible Materials** | Avoid static electricity build up or exposure to flames. |
| **Hazardous Decomposition Products** | Product is not combustible. |

## Section 11 Toxicological Information

**Acute Effects:**

| | |
|---|---|
| **Swallowed** | Not applicable. |

| | |
|---|---|
| **Dermal** | Not applicable. |
| **Inhalation** | Not applicable however may cause irritation of the respiratory tract. Prolonged or repeated exposure may cause lung damage |
| **Eye** | Not applicable however dust may cause irritation and inflammation. |
| **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

Product is not classified as Hazardous to the aquatic environment.

| | |
|---|---|
| **Persistence and degradability** | No data available |
| **Bioaccumulation** | No data available |
| **Mobility in Soil** | No data available |
| **Other adverse effects** | No data available |

## Section 13. Disposal Considerations

**Disposal Method:**
Labels should not be removed from containers until they have been cleaned. Do not cut, puncture or weld on or near containers. Empty containers may contain flammable residues. Contaminated containers must not be treated as household waste. Containers should be cleaned by appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

**Precautions:** Do not incinerate closed containers. Advise flammable nature.

**Disposal methods to avoid:** None known.

## Section 14 Transport Information

**This product is NOT classified as a Dangerous Good for transport in NZ ; NZS 5433:2020 and Australian Dangerous Goods Code ADG7 and NOHSC:1008(2004)**

## Section 15 Regulatory Information

**Australia:**
Not Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Not classified as a Schedule 6 Poison according to the Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP).

**New Zealand:**
This substance is NOT hazardous according to the EPA Hazardous Substances (Classification) Notice 2020

## 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 2023 14th 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 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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