

# Material Safety Data Sheet

## 1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name:** OXYPLAST "PR" GRADE (TGIC) POLYESTER  
PR10; PR12; PR16; PR18; PR28; QPR; RPR Grades

**Recommended Use:** A thermoset coating for metal substrates applied most commonly by electrostatic spray and baked at a specified schedule.

**Supplier:** OXYTECH Powder Coatings Pty Ltd  
ABN: 19 131 156 217

**Street Address:** Unit 6, 8 Cooper Street  
Smithfield, NSW 2164, Australia

**Telephone Number:** +61 2 9725 5707

**Fax Number:** +61 2 9675 4279

**Emergency Telephone:** 1300 353 655 (24 HOURS)

## 2. HAZARDS IDENTIFICATION

### HAZARDOUS SUBSTANCE. NON-DANGEROUS GOODS

**Risks:**

R20/22	Harmful by inhalation and if swallowed;
R36	Irritating to eyes;
R43	May cause sensitisation by skin contact;
R46	May cause heritable genetic damage.

**Safety:**

S22	Do not breathe dust;
S24/25	Avoid contact with skin and eyes;
S36	Wear suitable protective clothing;
S37	Wear suitable gloves;
S38	In case of insufficient ventilation, wear suitable respiratory equipment;
S39	Wear eye/face protection;
S13	Keep away from food, drink and animal feeding stuffs.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Components</u>	<u>CAS Number</u>	<u>Proportion (%w/w)</u>	<u>Classification</u>
<i>*PR Grade Polyester except PR28</i>			
Polyester Resin	Commercially Confidential	30 - 60	Non-Hazardous
Pigments	Various	30 - 60	Non-Hazardous
Additives	Various	<10	Non-Hazardous
TGIC- Triglycidylisocyanurate	2451-62-9	<10	Hazardous
<i>*PR28 Grade 'Crystal Clear' Polyester</i>			
Polyester Resin	Commercially Confidential	>60	Non-Hazardous
Additives	Various	<10	Non-Hazardous
TGIC- Triglycidylisocyanurate	2451-62-9	<10	Hazardous

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## 4. FIRST AID MEASURES

- Inhalation:** Remove victim to fresh air. Remove contaminated clothing. Keep victim comfortable and warm till fully recovered. If breathing is irregular or stopped, administer artificial respiration and seek medical attention.
- Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with soap and running water. Seek medical attention if skin irritation develops.
- Eye Contact:** If in eyes, flush out immediately with running water. Seek medical attention.
- Ingestion:** If swallowed, rinse mouth out with water. Follow with plenty of water to drink. Seek medical advice.
- First Aid Facilities:** Shower and eye wash equipment capable of volume flushing, in addition to basic first aid facilities.
- Special Treatment:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

- Suitable Extinguishing Media:**  
Dry chemical, light water spray, alcohol-resistant foam or carbon dioxide. DO NOT use hard water jet.
- Hazards from Combustion Products:**  
Combustion of the material may produce carbon dioxide, carbon monoxide and oxides of nitrogen.
- Precautions For Fire Fighters and Special Protective Equipment:**  
Self-contained breathing apparatus and protective clothing is highly recommended due to toxic fumes and combustible material.

## 6. ACCIDENTAL RELEASE MEASURES

- Emergency Procedures:**  
In case of contamination of waterways or sewer systems, advise local emergency services immediately.
- Methods and Materials for Containment and Clean-Up:**  
In case of spills, wear protective clothing including eye and respiratory protection. Cover spill with a damp absorbent (sand, soil or similar material). Pick up the spill carefully by shovel, scoop or vacuum to avoid generating dust and place into properly labelled and sealed container for disposal.

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## 7. HANDLING AND STORAGE

### Precautions for Safe Handling:

Avoid contact with and eyes.

Flammable air-dust mixtures could form during application. Isolate from sources of heat, open flames or sparks.

Avoid the build up of explosive mixtures by regular cleaning of booth extraction systems and earthing of equipment to prevent static electricity.

### Conditions for Safe Storage:

Store in a dry, well ventilated place at temperature below 30°C, away from heat and direct sunlight. Keep away from open flames, sparks, oxidising agents, strong alkaline and acid chemicals. Keep containers properly sealed to prevent cross-contamination and spills.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### National Exposure Standards:

TWA (Time Weighted Average) as published by the NOHSC *Exposure Standards for Atmospheric Contaminants in the Occupational Environment* for TGIC contained in powder coatings: **ES-TWA= 0.08mg/m<sup>3</sup>**

*Note: TWA- Time Weighted Average for airborne concentration is calculated over an eight (8) hour working shift, for five (5) day working week, over an entire working life.*

### Engineering Controls:

-Use only in a functional powder spray booth or designated area equipped with adequate dust extraction.

-Maintain air concentrations below the above stated Exposure Standards.

-Refer to AS3754- *Safe Application of Powder Coatings by Electrostatic Spray Painting* for advice on the correct design of the application and curing environment.

-Ensure that cure oven ventilation and dust extraction systems meet environmental standards for emissions vented into the atmosphere.

-Keep containers sealed when not in use.

### Personal Protective Equipment (PPE):

Respiratory Protection: For incidental exposure, a cartridge filter, half face respirator which complies with AS1716 and fitted with a P1 filter should be used. For maximum protection, a full faced, powered, air-purifying respirator, fitted with a P2 filter, in compliance with AS1716 and AS1715 should be used.

Eye Protection: Wear safety glasses or full face masks in compliance with AS1336.

Hand Protection: Seek advice from glove providers on appropriate gloves for your situation. Non-woven gloves are recommended for maximum protection.

Skin Protection: Protective clothing should be selected to avoid or minimize the contact with powder including closed in boots/shoes. Specialised spray suits/overalls are recommended.

**\*Remember\* Always wash hands before smoking, eating, drinking or using the toilet. Wash contaminated clothing and Personal Protective Equipment before storing or re-using.**

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	:	Powder
Colour	:	Various colours
Odour	:	Characteristic
Water Solubility	:	Not miscible
Solvent Solubility	:	Soluble in some specific organic solvents
Boiling Point	:	Not applicable
Melting Point (°C)	:	>70°C
Percentage Volatile	:	Not applicable
Evaporation Rate	:	Not applicable
Vapour Density	:	Not applicable
Specific Gravity	:	1.2 - 1.9
Flash Point	:	Not applicable
Explosion Limits	:	40 - 70 g/m <sup>3</sup>
pH	:	Not applicable

### 10. STABILITY AND REACTIVITY

<b>Chemical Stability:</b>	Stable under recommended storage and handling conditions (see section 7).
<b>Conditions to Avoid:</b>	Avoid exposure to heat, open flames and sparks. Keep out of direct sunlight.
<b>Incompatible Materials:</b>	Incompatible with oxidising agents, strongly alkaline materials and strongly acidic materials.
<b>Hazardous Decomposition Products:</b>	When exposed to high temperatures, may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, N <sub>x</sub> O <sub>y</sub>
<b>Hazardous Reactions:</b>	Material will not polymerise into a hazardous reaction.

### 11. TOXICOLOGICAL INFORMATION

#### Acute Toxicity

Inhalation:	May cause a cough, difficult breathing or respiratory irritation.
Skin Contact:	Dust may cause irritation to skin.
Eye Contact:	May cause irritation to the eyes.
Ingestion:	Depending on quantity consumed, may cause irritation to throat, mouth and digestive tract. Higher volumes may cause nausea, vomiting and diarrhoea.

#### Chronic Toxicity

Skin Contact:	Prolonged or repeated exposure could lead to mild dermatitis of the skin in sensitive persons.
Inhalation/Ingestion:	This product contains TGIC (Triglycidylisocyanurate), which has been found to be a mutagenic in mice at levels of 8mg/cm <sup>3</sup> exposure. The toxicity of compounded powder coatings containing <5% w/w TGIC has not yet been agreed on. Recent studies suggest that TGIC may have the potential to cause heritable genetic damage.

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Issue Date: 01-06-2014 Version: 2.0

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### 12. ECOLOGICAL INFORMATION

**Ecotoxicity:** Prevent from entering waterways or sewer systems.

### 13. DISPOSAL CONSIDERATION

Refer to your State Waste Management Authority for approved waste contactors and approved land waste sites. Product waste should be transported for disposal in clearly labelled, sealed containers.

### 14. TRANSPORT INFORMATION

**Road and Rail:** Not classified as Dangerous Goods by the criteria of the Australian Dangerous Goods Code (ADG Code) for transport by Road and Rail.  
**NON-DANGEROUS GOODS**

**Air Transport:** Not classified as Dangerous Goods by the criteria of the International Air Transport Association (IATA) for transport by Air.  
**NON-DANGEROUS GOODS**

**Sea Transport:** Not classified as Dangerous Goods by the criteria of the International Maritime Dangerous Goods Code (IMDG Code) for transport by Sea.  
**NON-DANGEROUS GOODS**

### 15. REGULATORY INFORMATION

**Classification:** This product is classified as **HAZARDOUS** according to the criteria of Safe Work Australia

**Poisons Schedule:** None allocated

### 16. OTHER INFORMATION

This document has been prepared with reference to NOHSC- National Occupational Health & Safety Commission "National Code of Practice for the Preparation of Material Safety Data Sheets" 2<sup>nd</sup> Edition [NOHSC:2011(2003)]

As the specific conditions of use of the product are outside the supplier's control, the user is always responsible for ensuring that the requirements of relevant legislation are complied with.

The information contained in this Material safety Data Sheet is based on the present state of knowledge and current national legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications.

**END OF MSDS**