



Address: Unit 5/200 Hamilton Road New Gisborne VIC.  
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M.S.D.S INFORMATION: Telephone: 03 5428 3988

## MATERIAL SAFETY DATA SHEET

PRODUCT: POLYPROPYLENE

REVISED DATE: 01/06/2016

PAGE: 1 of 6

### SECTION 1: IDENTIFICATION of the MATERIAL and SUPPLIER

**Product Name:** POLYPROPYLENE **Code:** WR02\*  
**Other Names:** POLYCOMP GRADES  
**Product Use:** Polypropylene injection moulding and extrusion compounds.  
Extruded to weld rod profiles  
**Supplier:** Trimfix Supplies (A.B.N 90 053 151 397)  
Address: Unit 5/200 Hamilton Road, New Gisborne, VIC, 3438  
Phone: 03 5428 3988 Facsimile: 03 5428 4988  
**Emergency Telephone Number:**  
Poisons Information Centre 131 126 (24 hours a day)

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Proportion
Polypropylene - (CH <sub>2</sub> CH(CH <sub>3</sub> )-) <sub>n</sub>	9003-07-0 or 9010-79-1	70 - 100%
Polyolefin based rubber	-	0 - 30%
Various stabilisers and pigments	-	< 5%

May include trace amounts (ppm) of residual organic peroxide.

### SECTION 3: HAZARD IDENTIFICATION

#### STATEMENT OF HAZARDOUS NATURE Issued: June 13, 2012

This material is generally regarded as being biologically inert and chemically unreactive.  
Not classified as hazardous according to the criteria of Worksafe Australia.

#### HEALTH HAZARD INFORMATION

##### Health Effects

The product is generally regarded as chemically unreactive and biologically inert.

Product is practically non-toxic and is unlikely to cause skin irritation. In its molten state the material will have a temperature in excess of 150°C and may cause severe burns.

Pre-existing eye and respiratory complaints may be aggravated by exposure to product fines and fumes at processing temperatures.

Fines generated during secondary processing (granulating, cutting etc) of items moulded from this product may cause minor irritation to the respiratory system.

**EYE:** Product fines may cause irritation to the eye

**SWALLOWED:** Practically non-toxic

**INHALED:** Product fines may cause irritation to the respiratory system.

No release of noxious fumes at ambient temperature.

Fumes arising during heating may be irritating to the respiratory system

**SKIN:** Product is unlikely to cause skin irritation at ambient temperature.

In its molten state, severe burns may arise.

Thermal decomposition products arising from polypropylene include carbon dioxide, carbon monoxide formaldehyde and acrolein. Formaldehyde and acrolein are both poisons which act as irritants at low concentrations of around 2 ppm. Irritancy provides a good warning on unacceptable exposure and the need for improved ventilation. Static charges may be built up during handling, particularly where high speed conveying is used. Storage bins and hoppers should be earthed to reduce risk of unexpected electric shocks.



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REVISED DATE: 01/06/2016

PAGE: 2 of 6

### SECTION 4: FIRST AID MEASURES

**General Advice:** Call 000 or emergency medical service. Remove and isolate contaminated clothing and shoes.

- EYE:** Any material entering the eye should be flushed out with copious volumes of water. Medical attention should be obtained immediately.
- INHALED:** Remove affected person to fresh air as quickly as possible. Keep warm and apply artificial respiration if necessary. Medical attention should be obtained immediately.
- SKIN:** Wash with soap and water.
- BURNS:** Any molten material on skin should be cooled as quickly as possible with cold running water. DO NOT ATTEMPT TO REMOVE SOLIDIFIED PRODUCT FROM THE SKIN (it acts as a sterile dressing). Do not use ice or cold packs if burned area covers more than 10 % of the body - this may contribute to shock. Seek immediate medical advice.

**FIRST AID FACILITIES:** No special facilities required

**Advice to Doctor:**

Pre-existing eye and respiratory complaints may be aggravated by exposure to product fines and fumes at processing temperatures.

### SECTION 5: FIRE FIGHTING MEASURES

Combustible substance will not burn unless pre-heated.

Moulded parts generally burn slowly with a low smoke density and flaming drips. Under certain conditions it can burn with a high smoke density. Smoke from burning polypropylene may contain toxic gases including carbon monoxide and irritant aldehydes (refer to Health Effects). Inhalation of fumes should be avoided.

Dust generated during handling may represent an explosion hazard.  
Do not enter confined space without adequate protective clothing.

**Emergency personnel should wear:**

- Leather boots
- Helmet and face shield
- Leather gloves
- Air supplied or self-contained breathing apparatus
- Suitable fire resistant, non-melting protective clothing.

**EXTINGUISHING MEDIA:**

Any commonly used medium, eg, water, foam, carbon dioxide, dry chemical.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Dust generated by high speed pneumatic or other conveying systems may cause an explosion hazard.  
Static charge may be built up during handling and eventually cause spark discharges.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

**NOTIFICATION PROCEDURES**

In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.



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REVISED DATE: 01/06/2016

PAGE: 3 of 6

### SECTION 6: ACCIDENTAL RELEASE MEASURES CONT.

#### SPILL MANAGEMENT

**Land Spill:** Spilled pellets present a slipping hazard on hard surfaces. Small Dry Spills: With clean shovel, place material into clean, dry container and cover loosely; move containers from spill area.

**Water Spill:** Stop leak if you can do so without risk. Confine the spill immediately with booms. Warn other shipping. Skim from surface

Water spill and land spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted.

**Note: Local regulations may prescribe or limit action to be taken.**

#### ENVIRONMENTAL PRECAUTIONS

Prevent entry into waterways, sewers, basements or confined areas. For Large Spills: Cover spill with plastic sheet or tarpaulin to minimise spreading.

### SECTION 7: HANDLING and STORAGE

#### Storage and Transport

Store in a cool dry place, away from strong oxidising agents, Store maintain and use away from heat, naked flames, or sparks.

#### Spills and Disposal

Caution: it is easy to slide and lose footing on granule spillages.

Sweep up and shovel, or use an industrial vacuum cleaner. Put into containers for reclaiming or disposal.

Not biodegradable. Do not allow environmental contamination.

For molten product, hose with water and allow to cool. Scoop up solidified material and place in containers for reclamation or disposal.

#### Handling

There is a risk of being splashed with molten materials. Thermal burns are the most common injury caused while processing molten material. Do not inhale fumes or vapor from molten product. Use with adequate ventilation.

When handling hot material, wear heat resistant protective gloves, clothing and face shield that are able to withstand the temperature of the molten product.

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Exposure Standards

Not determined

#### Engineering Controls

At room temperature special ventilation is not normally required.

Ventilation should be provided to remove fumes generated during processing.

Local dust extraction is recommended during secondary processing (granulating, cutting etc) of items moulded from this product.

## MATERIAL SAFETY DATA SHEET

PRODUCT: POLYPROPYLENE

REVISED DATE: 01/06/2016

PAGE: 4 of 6

### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION cont.

#### Personal Protection:

The molten material is hot enough to cause severe burns and will adhere strongly to the skin. Where molten product is likely to come into contact with the person, the following equipment is required:

- Heat resistant gloves
- full face shield
- Combination overalls with close fit at neck and wrists
- Leather or rubber boots
- Hard hat

Dust masks and safety glasses/goggles are recommended to be worn during secondary processing (granulating, cutting etc) of items moulded from this product.

#### Flammability:

Combustible substance. Take precautions against static electricity charges. Ensure adequate ventilation. Earth and bond all process equipment. Ensure that all process equipment is flame-proof - refer AS 1940 - 1988.

#### General

Care should be taken to minimize the potential for the inhalation of dust arising from secondary processing operations (eg. granulating, cutting etc).

### SECTION 9: PHYSICAL – CHEMICAL PROPERTIES

#### PHYSICAL DESCRIPTION/PROPERTIES

**Appearance:** Solid pellets, Extruded to Solid Weld Rod Profiles

**Boiling Point:** Does not boil **Flashpoint:** 350oC approx.

**Flammability Limits:** Not Available

**Solubility in Water:** Insoluble

**Colour:** Various

**Melting Point:** 165 - 170oC

**Vapour Pressure:** Not Available

**Specific Gravity:** 0.90 - 0.93,

#### OTHER PROPERTIES

**Bulk Density:** 0.50 - 0.55 g/ml

**Vapour Density (Air = 1) < 1**

**Auto-ignition:** 390oC min

**Odour:** Negligible

**Volatiles:** < 1

### SECTION 10: STABILITY and REACTIVITY

#### Stability and reactivity

The product is stable.

#### Conditions to avoid

Stable under recommended storage and handling conditions (See Section: "Handling and storage"). If heated to more than 300°C, the product may form vapors or fumes which could cause irritation of the respiratory tract, coughing, and shortness of breath. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material.

#### Incompatibility with various substances

Strong oxidizing materials



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REVISED DATE: 01/06/2016

PAGE: 5 of 6

### SECTION 10: STABILITY and REACTIVITY

#### Hazardous decomposition products

Burning can produce carbon monoxide and/or carbon dioxide and other harmful products. The major decomposition products are low molecular weight oligomers (C6-18) of polypropylene. Degradation products may include trace amounts of acrolein, formaldehyde, aldehydes, and other organic vapors.

#### Hazardous polymerization

Will not occur.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### Chronic toxicity

#### Carcinogenic effects

No component of this product at levels greater than 0.1% is identified as a carcinogen by ACGIH or the International Agency for Research on Cancer (IARC). No component of this product present at levels greater than 0.1% is identified as a carcinogen by the U.S. National Toxicology Program (NTP) or the U.S. Occupational Safety and Health Act (OSHA).

#### Mutagenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a mutagen.

#### Reproductive effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as a reproductive toxin.

#### Teratogenic effects

No component of this product at levels greater than 0.1% is classified by established regulatory criteria as teratogenic or embryotoxic.

### SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity** No testing has been performed by the manufacturer.

#### **Mobility**

This product is lighter than water and will float on the surface. This product is not likely to move rapidly with surface or groundwater flows because of its low water solubility.

#### **Bioaccumulative potential**

This product is not expected to bioaccumulate through food chains in the environment.

#### **Persistence/degradability**

Not inherently biodegradable (polymer).

#### **Other ecological information**

Wildlife may ingest plastic pellets or bags. Although not toxic, such materials may physically block the digestive system, causing starvation or death.



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**PAGE:** 6 of 6

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste information**

Avoid contact of spilled material and runoff with soil and surface waterways. Consult an environmental professional to determine if local, regional or national regulations would classify spilled or contaminated materials as hazardous waste. Use only approved transporters, recyclers, treatment, storage or disposal facilities. Dispose of in accordance with all applicable local and national regulations.

**Consult your local or regional authorities.**

**SECTION 14: TRANSPORT INFORMATION**

Not classified as hazardous for transport (DOT, TDG, IMO/IMDG, IATA/ICAO)

**SECTION 15: REGULATORY INFORMATION**

**US INVENTORY**

**U.S. Federal regulations:** (TSCA): In compliance.

This product is not regulated under Section 302 of SARA and 40 CFR Part 355.

CERCLA Sections 102a/103 Hazardous Substances (40 CFR Part 302.4):: This material is not regulated under CERCLA Sections 103 and 107.

**State regulations:** No products were found.

**California Prop 65:** No products were found

AUSTRALIAN INVENTORY (AICS): In compliance.

CANADA INVENTORY (DSL): In compliance.

CHINA INVENTORY (IECS): In compliance.

EC INVENTORY (EINECS/ELINCS): In compliance.

JAPAN INVENTORY (ENCS): In compliance.

KOREA INVENTORY (ECL): In compliance.

PHILIPPINE INVENTORY (PICCS): In compliance.

**Inventories**

This product does not contain any hazardous ingredients at or above regulated thresholds.

This product does not contain any hazardous ingredients at or above regulated thresholds.

**SARA 313**

**FormR – Reporting requirements**

**Supplier notification**

This product does not contain any hazardous ingredients at or above regulated thresholds.

**SECTION 16: OTHER INFORMATION**

**Date Prepared:** 01/06/2016

**Emergency Contact:** Poisons Information Centre 13 11 26  
 Trimfix Supplies (03) 54283988

**Disclaimer**

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