

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: **RADMIX Micro Synthetic Fibres**
Product code: RAD12pp
Product: Micro Polypropylene.

Company: Radmix Pty Ltd.
ABN: 89 114 166 899
Address: 110 Safari Place,
Carabooda, Western Australia, 6033
Telephone number: +61 8 9407 5233
Facsimile: +61 8 9407 5118

Emergency telephone number: 0409 345 345 or 0409 556 893

Technical Information

Material	Polypropylene 9003-07-0 > 99
Grade	hp565k
Specific Gravity	0.91
Melt point	150°C - 170 Degrees Celcius
Fiber Length	12mm
Alkali Resistance	excellent
Packing	300 grams to 1.2 kilo's bags or to clients specification
Color	Milky White
Electrical Conductivity	Low
Moisture Content	0.0%
Standard Dosage	0.9 - 2 kg/m ³
Odor	None
Viscosity	100 Pas at 190 Celsius 100 1/s
Fibre Type	Mono - Filament

IDENTIFICATION

PRODUCT CODE:; RAD12pp
PRODUCT NAME ; Polypropylene 9003-07-0 > 99
OTHER NAMES: Polypropylene nibs, Polypropylene pellets
PRODUCT TYPE; (Mono - Filament)

USE: MANUFACTURE OF PLASTIC ARTICLES BY INJECTION MOULDING,
EXTRUSION OR OTHER CONVERSION PROCESS.

CLASSIFICATION **NOT CLASSIFIED AS HAZARDOUS** ACCORDING TO CRITERIA OF
WORKSAFE AUSTRALIA
UN NUMBER, DANGEROUS GOODS CLASS, HAZCHEM CODING AND
POISONS SCHEDULES DO NOT APPLY TO THIS MATERIAL

PHYSICAL DESCRIPTION AND PROPERTIES (Typical Figures)

APPEARANCE AND ODOUR:

Milky White, odourless, plastic pellet/nib/granule

CHEMICAL REACTIVITY:

Stable. Reacts with strong oxidising agents. At processing temperatures, some degree of degradation will occur. Although highly dependent on temperature and environmental conditions a variety of decomposition product may be present ranging from simple hydrocarbons (such as methane and propane) to toxic/irritating gases (carbon monoxide and dioxide, acrolein, acids, ketones, aldehydes). [See Health Hazards].

SPECIFIC GRAVITY:	0.91g/cm ³ @ 15°C
BOILING POINT:	not applicable.
MELTING POINT:	150-170 °C
SOLUBILITY (WATER):	Insoluble

The following categories are of no relevance to the material;

- 1) Vapour pressure
- 2) Vapour density
- 3) Evaporation rate
- 4) Percent volatiles

FIRE/EXPLOSION HAZARD:

FLASH POINT:	Not applicable
EXPLOSION LIMIT	Not applicable to granules
AUTOIGNITION:	390°C minimum.
LEL:	not available
UEL:	not available

INGREDIENTS

Chemical Name	CAS Number	Proportion
Polypropylene homopolymer	9003-07-0	>99%
Additives for process and long term stabilisation, polymer modification aids		<1%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS:

ACUTE

At room temperature the product is not an irritant and does not liberate dangerous fumes. In its molten state the material will have a temperature in excess of 150°C and will cause severe burns. Pre-existing eye and respiratory complaints may be aggravated by exposure to product fines (powder) and/or fumes generated at processing temperatures.

SWALLOWED:

The material is considered non-toxic and no specific measures are required in case of ingestion..

EYE:

Product fines may cause mechanical irritation to eyes. Rinse eye with cold running water for several minutes then seek medical advice. Process vapours may irritate eyes, ensure adequate ventilation.

SKIN

Contact with molten material can cause severe burns.

INHALED:

Product fines may cause mechanical irritation to the respiratory system.

Process vapours could be irritating to the respiratory system.

CHRONIC

Limited toxicological studies show no signs of toxicity to animals. No data is available for humans.

FIRST AID:

SWALLOWED:

No specific measures are required in case of ingestion of the product.

EYE:

If irritation occurs, hold eyes open and flood with water for 15 mins. If irritation persists, seek medical attention.

SKIN/BURNS

Should be cooled with cold water or ice. Do not use ice or cold packs if burned area covers more than 10% of the body as this may contribute to the shock. Leave burned area uncovered. **DO NOT TRY TO REMOVE SOLIDIFIED PRODUCT FROM THE SKIN.** Seek immediate medical advice.

INHALED:

Treatment not ordinarily required. If a large number of fumes are inhaled, keep the patient in a well ventilated area. If symptoms persist, seek medical advice.

ADVICE TO DOCTOR:

Pre-existing eye and respiratory complaints may be aggravated by exposure to product fines and fumes at processing temperatures. BURNS - No attempt should be made to remove the solidified product (it acts as a sterile dressing).

PRECAUTIONS FOR USE

EXPOSURE LIMITS:

No data available on polypropylene.

ENGINEERING CONTROLS:

At room temperature special ventilation is not normally required.

Ventilation should be provided to remove fumes generated during processing. Dust generated in handling granular polypropylene presents no special health hazard, but atmospheric dust levels should nevertheless be minimised and the National Health & Medical Research Council's Hygienic Standard of $10\text{g}/\text{m}^3$ for nuisance dusts, observed.

PERSONAL PROTECTION:

When handling material at room temperature, no special protection is required. If large quantities of dust or fumes are present, then a dust mask or respirator complying with AS1715 or AS1716 should be utilised, as appropriate.

When product is heated during processing adequate ventilation and/or engineering controls are required. Where molten product is liable or likely to come into contact with the person, the following equipment is required;

- 1) Full face shield
- 2) Heat resistant gloves (long gauntlets)
- 3) Cotton combination overalls with close fit at neck and wrists
- 4) Leather safety shoes or rubber boots (trousers worn outside)
- 5) Hard hat

FLAMMABILITY:

Combustible substance. Will not burn unless preheated. Take precautions against static electricity discharges. Ensure adequate ventilation. Earth and bond all process equipment. Ensure all process equipment is flameproof.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT:

Store in a cool, dry place, away from strong oxidising agents. Minimise accumulation of dust. Polypropylene is not defined as a Dangerous Good by the Australian Code of the Transport of Dangerous Good by Road and Rail.

SPILLS AND DISPOSAL:

Caution: it is easy to slide and lose footing on granule spillage's. Clean up immediately.

Shovel and sweep up, 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 reclaim. Refer to local waste management authority for land fill and incineration guidelines.

FIRE/EXPLOSION HAZARD:

Combustible substance. Will not burn unless preheated.

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 can contain various levels of toxic gases, depending on the amount of oxygen present.

Do not enter confined space without adequate protective clothing. Emergency personnel should wear:

- 1) Leather boots
- 2) Helmet and face shield
- 3) Leather gloves
- 4) Suitable fire resistant, non-melting protective clothing
- 5) If entering a confined area a self contained breathing apparatus should be used.

Use foam, Carbon Dioxide, dry agent or water fog/spray on fires.

SPECIAL NOTES:

Version:	MSDS Homopolymer.
Issue Date:	February 2008
Next Revision Date	February 2013

Material Safety Data sheets are revised on an as needs basis (with a minimum revision set for every 5 years). To ensure that you have the latest copy, please contact the number below.

If further clarification of any of the issues discussed above is required, please call the contact number below.

CONTACT POINT: Technical department on: **+61 (3) 9829 9455**

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