

1. IDENTIFICATION OF MATERIAL

PRODUCT NAME: Polypropylene

OTHER NAMES: Polypropylene Homopolymer

2. HAZARDS IDENTIFICATION

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.

3. INGREDIENTS

Chemical Name CAS Number Proportion

Polypropylene homopolymer 9003-07-0 >99%

Additives for process and long term stabilisation, polymer modification aids various <1%

4. FIRST AID

EYE: N/A

SWALLOWED: No specific measures are required in case of ingestion of the product. Get medical advice if necessary.

SKIN/BURNS: N/A

5. FIRE FIGHTING MEASURES

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

SUITABLE EXTINGUISHING MEDIA:

Use the following extinguishing media

- 1) Foam.
- 2) Carbon dioxide.
- 3) Chemical powder.
- 4) Water fog/spray on fires.

HAZARDS FROM COMBUSTION PRODUCTS:

Product generally burns 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, including carbon dioxide and carbon monoxide, ketones, acroleins, aldehydes and unidentified organic compounds, depending on the amount of oxygen present.

PROTECTIVE EQUIPMENT:

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) Self contained breathing apparatus should be used.

6. ACCIDENTAL RELEASE MEASURES

SPILLAGE: Caution: Put into containers for reclaiming or disposal. Not biodegradable. Do not allow environmental contamination. Refer to local waste management authority for land fill and incineration guidelines.

7. HANDLING AND STORAGE

HANDLING: Normal

STORAGE: Store away from strong oxidising agents. Protect from heat and direct sunlight. Store under cool, dry conditions.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS: No data available on polypropylene.

PERSONAL PROTECTION: When handling material at room temperature, no special protection is required.

9. PHYSICAL DESCRIPTION AND PROPERTIES (Typical Figures)

APPEARANCE: Flat plastic strapping

COLOUR: Various

ODOUR: Odourless

BOILING POINT: Not applicable

MELTING POINT: 160-165 °C

SOLUBILITY (WATER): Insoluble

SPECIFIC GRAVITY: 0.90 g/cm³ @ 15 °C

AUTOIGNITION: 390°C minimum.

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

HAZARDOUS REACTIONS: No dangerous reactions known.

11. TOXICOLOGICAL INFORMATION:

ACUTE: N/A

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

EYE: N/A

SKIN: N/A

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

12. ECOLOGICAL INFORMATION

ECOTOXICITY: Not available.

PERSISTENCE AND DEGRADABILITY: This product is not biodegradable. **MOBILITY:** Floats on water.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: 1) Recycle (reprocess). 2) Refer to local waste management authority for land fill and incineration guidelines.

Polypropylene recycle symbol

