PROMEG®

Material Safety Data Sheet

Emergency telephone number
(Business Hours)
+61 03 9238 1300

IDENTIFICATION:

PRODUCT NAME: Promeg® Polypropylene

OTHER NAMES: Marmo®, Fluido®, Transeco®, Dueco®

TRADE NAME: __

USE: Conversion into various plastic products including, but not limited to packaging and signage.

CLASSIFICATION Not classified as hazardous according to criteria of Worksafe Australia UN number, dangerous goods class, Hazchem coding and poisons schedule number do not apply to this material.

PHYSICAL DESCRIPTION AND PROPERTIES (Typical Figures)

APPEARANCE AND ODOUR:
Odourless, transparent and opaque, coloured plastic available in sheet, roll and packaging product forms.

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 products may be present ranging from simple hydrocarbons (such as methane and propane) to toxic/irritating gases (carbon monoxide and dioxide).
[See Health Hazards].

SPECIFIC GRAVITY:	0.91g/cm3 @ 15˚C
BOILING POINT:	not applicable
MELTING POINT:	165-170 ˚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
AUTO IGNITION:	390˚C minimum.
LEL:	not available
UEL:	not available

INGREDIENTS

Chemical Name	CAS Number	Proportion
Polypropylene	9003-07-0	X to 100%
Additives for process and long term stabilisation, polymer modification aids		0 - X%

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. Preexisting eye and respiratory complaints may be aggravated by exposure to product fines (powder) and/or fumes generated at processing temperatures in excess of 230˚C.

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

EYE:
Product fines from processing 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. Unlikely to cause skin irritation at ambient temperature.

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 (rats).
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.

CONTACT – Wash hands with soap and water.

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 where heating (above 230˚C) is expected. Dust generated in processing (granulating, cutting) 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 g/m3 for nuisance dusts, observed. Pre-existing medical conditions may be aggravated through exposure to fines and fumes.

PERSONAL PROTECTION:
When handling material at room temperature, no special protection is required. If large quantities of dust or fumes are present from processing, 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 arerequired. 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)

FLAMMABILITY:
Combustible substance. Will not burn unless preheated. Take precautions against static electricity discharges. Ensure adequate ventilation. Earth and bond all process equipment.
See Fire/Explosion Hazard.

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 polypropylene spillage's. Clean up immediately.
Clean up spills and put into containers for reclaiming (100% recyclable) 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 recycling, land fill and incineration guidelines.

FIRE/EXPLOSION HAZARD:
Combustible substance. Polypropylene is difficult to ignite (600˚C ignition temperature) and will not burn unless preheated.
Polypropylene will begin to melt at approximately 165-170˚C. Decomposition will commence at approximately 300˚C with carbon dioxide, water, carbon monoxide and carbon soot the main byproducts. 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:

All components of Promeg® polypropylene products are food contact approved, conforming Australian Standard 2070.
Promeg® polypropylene products pass stringent Photographic Activity Test (PAT) conforming to ISO standard 10214, and as such is copy safe and recommended for document and sensitive material archive storage.
If further clarification of any of the issues discussed above is required, please call the contact number below.

CONTACT POINT:

Megara Technical department on: **+61 (3) 9238 1300 (Business Hours Only)**

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