

Safety Data Sheet
APCO Road Marking Thermoplastic

Issued By: Apco Coatings Issue Date: Jan 2016
Product Name: **Apco Hotmelt Thermoplastic Pavement Marking Material**

NON HAZARDOUS & NON DANGEROUS GOODS
Not Classified as Hazardous according to criteria of Safe Work Australia

COMPANY DETAILS

Company Name: Apco Coatings
Address: 111 Kurrajong Avenue, Mount Druitt NSW 2770
Tel/Fax: tel: 02 98320000 fax: 02 98328888
Email: info@apcocoatings.com.au

IDENTIFICATION:

Product Name: Apco Thermoplastic Pavement Marking Materials
Other Names: Hotmelt Thermoplastic Road Marking/Line Marking Materials
Grades: Extrusion, Screed, Spray, Profile (also known as Audio-Tactile)
UN Number: Not Allocated
Hazchem: Not allocated
DG Class: Not allocated
Poisons Schedule: Not Allocated
Product Use: Long life pavement marking for longitudinal and transverse line marking, intersections, car park line marking, arrows, speed numeral, letterings etc.
Product is pre-melted to 195-215° C before application.

Physical Data

Appearance: Coarse white powder with pale yellow pallets
Softening Point: 105 ± 5°C
Flash Point: > 230° C
Vapour Pressure: Not relevant
Specific Gravity: 2 ± 0.2
Flammability: Not relevant
Solubility in Water: Insoluble
Other Properties: Binder (pale yellow pallets) is soluble in solvents such as Toluene, Xylene and most Chlorinated Hydrocarbon.

Ingredients			
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Ingredients	Chemical Entity	CAS	Proportion
	Binder	68038-41-5	14 – 22%
	Glass Beads	65997-17-3	20 - 35%
	Plasticiser	N.A.	3 – 10%
	Titanium Dioxide	3463-67-7	3 – 15%
	Inert Extenders	1317-65-3	35 – 70%
	(Calcium Carbonate etc)		

Health Hazard and Effects Information	
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Acute - Ingestion:	Powder form - low toxicity, however ingestion should be avoided Molten form - harmful and must be avoided
Acute - Eye:	Powder form - direct contact may cause irritation. Aggregate may scratch eye surfaces when rubbed. Molten form - will cause serious damage to eyes. Eyes must be protected at all times
Acute - Skin:	Powder form - slightly irritating upon direct contact. Low level of toxicity. Molten form - will cause severe burn
Acute – Inhalation:	Powder form - nuisance dust of negligible hazard. A Threshold Limit Value (TLV) of 10 mg/cubic metre of total dust is recommended. Molten form – negligible hazard. Minimise inhalation and ensure good ventilation.
Chronic:	There are no reports in the literature of adverse health effects in workers arising from long exposure to Thermoplastic Road Marking Material.

First Aid	
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Ingestion:	Powder form - First Aid not normally required Molten form – Transport to hospital or doctor without delay
Eye:	Powder form – hold the eyes open and flush immediately and continuously with sterile water until irritation stops. Ensure irrigation under eyelids by occasionally lifting the upper and lower lids. Molten form - flush eyes immediately with large quantity of cold sterile water to dissipate heat and contain injury. DO NOT attempt to remove any fused thermoplastic material. Transport to hospital or doctor without delay and DO NOT RUB THE EYES!!!
Skin:	Powder form - Wash the affected areas thoroughly with soap and water. DO NOT use solvents. Seek medical attention in the event of irritation Molten form - Same procedure as in the case of first aid for eyes.

Inhalation: **Powder form** - First aid not normally required.
Molten form - First aid not normally required for inhalation of fumes.
 If necessary remove patient to fresh air, lay them down and keep warm and rested. If breathing is shallow or has stopped, ensure clear airway and apply resuscitation. **Transport to hospital or doctor**

First Aid Facilities: Eye Bath

Advise to Doctor:	Not required
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PRECAUTIONS FOR USE

Exposure limits: Nuisance particulate dust. TLV is 10mg/cubic metre for total dust.
 Eng. Controls: Ventilate with exhaust fan if handling product indoors to maintain airborne dust to below TLV.

Personal Protection

Hot Melt Thermoplastic Road Marking Material should not be used in its molten form by anybody not formally trained in safe handling procedures.

Respirator Type: Use proper respiratory protection when working in areas of poor ventilation.
 Eye Protection: Use a full-face shield whilst loading and running preheaters.
 Hand & Feet Protection: Wear industrial safety shoes/boots. Wear industrial heat resistant gloves with extended sleeves, gauntlet type.
 Protective Clothing: Wear long sleeved flame retardant overalls.

Flammability

Fire Hazards: **Powder form** – non-flammable.
 When heating do not exceed the maximum safe heating temperature of 230 deg C, as flash point is higher than 230deg C.

Fire/Explosion Hazards:
Molten form - in the event of a fire in the preheater caused by overheating, fire will produce dense smoke, which may contain harmful gases of combustion.
IMMEDIATELY turn off gas or heating source. Turn off agitator and extinguish flames using dry powder or CO₂ fire extinguisher. **DO NOT** use water at any time, either to put out fire or to cool the preheater. Leave preheater open. Introduce more powder material into preheater, if possible, to assist in reducing overall product temperature. Allow to cool and do not drain off material until it has cooled below the maximum safe heating temperature.

SAFE HANDLING INFORMATION Storage and Transport

- Storage:** Thermoplastic materials should be stored safely and securely in areas not subject to excessive heat or contamination from fuels, oils or greases. It should also be protected from rain and moisture. The presence of moisture in the material can cause foaming, spitting and expansion in the preheater.
- Transport:** No other special precautions are required for transportation.
- Use good handling practices when using material.**

Spills and Disposal

- Spills & Disposal:** Sweep up and dispose through normal disposal regulations for non-hazardous solid waste. In event of spillage in molten form, shut off source of spill, contain the spillage then allow to cool and solidify before disposal.

OTHER INFORMATION

Ensure that all operators are fully conversant with equipment manufacturers safety instructions for lighting, feeding and shutting down of preheaters. Maintain equipment in good working order. Ensure temperature gauges are accurate and calibrated regularly. Do not overheat materials. Avoid maintaining at working temperature for longer than necessary (maximum 6 hours). To avoid danger of hot material splashing, care must be taken when adding material to hot material already in the preheater. Use well charged preheaters. **DO NOT** overfill; allow for expansion of molten thermoplastic.

CONTACT POINT

- Contact:** For further information contact APCO Coatings Australia
Technical Manager Phone 02 9832 0000

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