



# **MSDS: DPI HOT MELT THERMO PLASTIC**

## **MATERIAL SAFETY DATA SHEET**

**Issued by DPI Australia Pty Ltd**

**Issued date: March 2012**

## **PRODUCT: DPI HOT MELT THERMO PLASTIC**

Not Classified as Hazardous according to criteria of Worksafe Australia.

### **Company Details**

Company Name: DPI Australia Pty Ltd  
Address: 59 Lincoln Street MINTO NSW 2566.  
Tel/Fax: Tel: 02 9603 6699 Fax: 02 9603 6698 Email: [dpiaustralia@hotmail.com](mailto:dpiaustralia@hotmail.com)

### **Identification**

Product name: DPI Hotmelt Thermo Plastic  
Other names: Hotmelt Thermo Plastic Road marking Material.  
Grades: White Screed, White Spray, White Extrusion, Preform  
UN Number: Not Allocated  
Hazchem: Not Allocated  
DG Class: Not Allocated  
Poisons Schedule: Not Allocated  
Product Use: Long life road marking for lane lines (Longitudinal) Stop Lines (Intersections), Car park lines etc.  
Product is pre melted to 200-230deg C before application

### **Ingredients.**

Chemical Entity	CAS	Proportions %
Resin (Synthetic Resins)	64742-16-1	16-19% Mass
Glass beads	65997-17-3	20%
Plasticiser	NA	3-5%
Titanium Dioxide	3463-67-7	3-5%
Inert Extenders (Calcium Carbonate etc)	1317-65-3	45-55%

## Physical Data.

Appearance:	Coarse white powder with pale yellow pellets
Softening Point:	101°C.
Flash Point:	Higher than 230°C (open cup)
Vapour Pressure:	Not relevant.
Specific Gravity:	2 ± 0.2
Flammability:	Not Relevant.
Solubility in Water:	Insoluble.
Other properties:	Binder (pale yellow pellets) is soluble in solvents such as Toluene, Xylene and most hydrocarbons.

## Health Hazard Information.

### Health Effects

Acute – Indigestion: avoided.	<b>Powder form-</b> low toxicity, however ingestion should be avoided. <b>Molten form-</b> harmful and must be avoided.
Acute – Eye.	<b>Powder form-</b> direct contact may cause irritation. Aggregate may scratch eye surface when rubbed. <b>Molten form-</b> will cause serious damage to eyes. Eyes must be protected at all times.
Acute - Skin:	<b>Powder form-</b> slightly irritating upon direct contact. Low level of toxicity. <b>Molten form-</b> will cause severe burn.
Acute – Inhalation:	<b>Powder form-</b> nuisance dust of negligible hazard. A threshold limit value (TLV) of 10mg/cubic metre of total dust is recommended. <b>Molten form-</b> 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 periods of exposure to Thermo Plastic Road marking materials.

## First Aid

### Skin Contact

**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.

### First Aid Continued

#### Eye Contact

**Powder form-** Hold the eye open and flush immediately and continuously with sterile water until irritation stops. Ensure irritation under the eye lids by occasionally lifting the upper and lower lids.

**Molten form-** flush eyes immediately with copious quantities of cold sterile water to dissipate heat and contain injury. **DO NOT** attempt to remove any fused thermo plastic material. Transport to Hospital or Doctor immediately.

### **Ingestion**

**Powder form-** First Aid not normally required.

**Molten form-** **Transport to Hospital or doctor without delay.**

### **Inhalation**

**Powder form-** First Aid not normally required.

**Molten form-** First Aid not normally required for the inhalation of fumes.

### **Breathing**

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 commence EAR.

**First Aid Facilities:** Eye bath

**Advise to Doctor:** Non Required

### **Precautions for use**

Exposure Limits: Nuisance particular dust. TLV is 10mg/cubic metre for total dust.

Eng Controls: Use in well ventilated area. Ventilation may be required and equipment **MUST BE** explosion proof. Use away from all ignition sources.

### **Personal Protection**

*Hot Melt Thermo Plastic Road marking material should not be used in its molten form by any body not formally trained in its safe handling.*

Eye protection: Use full face shield whilst loading and running pre heaters.

Skin Protection: Wear industrial safety boots. Impervious gloves with extended sleeves, gauntlet type **MUST** be worn.

Inhalation: Approved respiratory protection **MUST** be used when vapour or mist concentrations are unknown or exceed the Worksafe exposure Standards.

### **Flammability**

**Fire hazards:** Powder form- Non Flammable.

When heating do not exceed the maximum safe heating temperature of 230deg C, as flash point is higher than 230deg C.

**Fire / Explosion Hazards:** Molten form- In the event of a fire in the pre heater caused by overheating, fire will produce dense smoke, which may contain harmful gases of combustion. Immediately turn off the 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 the fire or cool the pre heater. Leave pre heater open. Introduce more powder

material into the pre heater, 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:** Thermo Plastic material should be stored safely and securely in areas not subject to excessive heat or contamination from fuels, oils and greases. It should also be protected from the weather and moisture. The presence of moisture in the material can cause foaming, spitting and expansion in the heater.

**Transport:** No other special precautions are required for transportation.

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

**Additional Information on the use of material is available on request.**

### **Contact Point**

**For further information contact:**

**Technical/ General Manager: DPI Australia Pty Ltd**

**Tel: + 61 2 9603 6699 Fax: +61 2 9603 6698 Email: [dpiaustralia@hotmail.com](mailto:dpiaustralia@hotmail.com)**

AWIS Preform makes no representation as to the completeness and accuracy of the data contained in this data sheet. It is the users obligation to evaluate and use this product safely and to comply with all Local, State and federal regulations and laws. AWIS Preform shall not be responsible for loss, damage, injury resulting from reliance upon or failure to adhere to any recommendations or information contained herein, from abnormal use of the material or from any hazard inherent in the nature of the material.