



"Creating a Safe Environment for All Road Users"

MATERIAL SAFETY DATA SHEET

Issued By:	Dura Products Industries Pty Ltd	Issue Date: Jan 2016
Product Name:	DPI Dura 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: Dura Products Industries Pty Ltd
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IDENTIFICATION:

Product Name: DPI Dura Hotmelt 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

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 (Calcium Carbonate etc)	1317-65-3	35 – 70%



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Table with 3 columns: Issued By, Product Name, Issue Date. Values: Dura Products Industries Pty Ltd, DPI Dura Hotmelt Thermoplastic Pavement Marking Material, Jan 2016

Health Hazard and Effects Information

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. Molten form - will cause serious damage to eyes. Acute - Skin: Powder form - slightly irritating upon direct contact. Molten form - will cause severe burn. Acute - Inhalation: Powder form - nuisance dust of negligible hazard. Molten form - negligible hazard. 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

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... Molten form - flush eyes immediately with large quantity of cold sterile water... Skin: Powder form - Wash the affected areas thoroughly with soap and water. 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. First Aid Facilities: Eye Bath

Advise to Doctor:

Advise to doctor: None 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 CO ₂ 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.	



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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

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