



# Material Safety Data Sheet

## Thermoplastic Road Marking Material - Profile

**Revision:** 05

**Issue date:** 06<sup>th</sup> April 2021

**Issued by:** DPI

**Product name:** DPI Profile Thermoplastic – White & Black

### Section 1 Identification of the Material and Supplier

**Product name:** DPI Profile Thermoplastic  
**Product code:** Profile-E3, Profile Pristine, Profile Black.  
**Recommended use:** Hot melt road and pavement marking. Product is pre-melted at 190-210°C before application.  
**Manufacturer:** Dura Products Industries Pty Ltd.  
**Address:** 59 Lincoln Street, Minto, New South Wales 2566, Australia  
**Telephone:** +61 2 9603 6699  
**Email:** [info@dpiaustralia.com.au](mailto:info@dpiaustralia.com.au)

### Section 2 Hazard Identification

This product contains <0.001% of residual vinyl acetate (Carcinogenicity – category 2), which is not considering as an hazard chemical as classified by Hazardous Chemical Information System (HCIS). <http://hcis.safeworkaustralia.gov.au/SearchKey#Notes>

#### Hazard Classification

This mixture is not considered hazardous by Hazardous Chemical Information System (HCIS)

#### Symbol(s)

Not Required

#### GHS Precautionary Statements

P201 Obtain special instructions before use.

P281 Use personal protective equipment as required.

P308+P313 If exposed or concerned: Get medical advice/attention.



# Material Safety Data Sheet

## Hazards Not Otherwise Classified

Powder form - Low toxicity, however ingestion should be avoided.

Molten form – Avoid Skin contact, the molten material may cause thermal burns.

Product dust may be irritating to eyes, skin and respiratory system.

## Section 3 Composition/Information on Ingredients

Chemical name	CAS No.	Wt. %
Resins and binders	64742-16-1	18% - 20%
Titanium dioxide (not in Black Profile)	13463-67-7	3.5% - 6%
Silicon Dioxide (not in Black Profile)	14808-60-7	> 20%
Calcium Carbonate	1317-65-3	50% - 80%
Carbon Black (only in Black Profile)	1333-86-4	> 1%

## Section 4 First Aid Measures

**Inhalation** Move to fresh air. Give oxygen or artificial respiration if needed. Call a physician or poison control centre immediately. Consult a physician if symptoms persist.

**Skin contact** Immediately flush skin with large amounts of cold water for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Cover affected area with a clean dressing. Conduct primary survey. If indicated, get immediate medical attention.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. DO NOT ATTEMPT TO REMOVE MOLTEN MATERIAL. Conduct primary survey. Get immediate medical attention if symptoms persist.

**Ingestion** Do not induce vomiting. If conscious, rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Seek medical attention. For advice, contact Poisons Information Centre (phone eg Australia 131 126; New Zealand 0800 764 766).



# Material Safety Data Sheet

## Section 5 Fire Fighting Measures

**Fire Hazards** This product may burn but does not ignite easily. Material will burn in extreme heat emitting carbon oxide combustion products. Vapour is flammable.

**Fire/Expl. Hazard** Low flammability solid.

**Extinguishing Media** Alcohol Foam, Carbon Dioxide, Dry Chemical, Water Fog. Keep exposed unopened containers cool with water spray. When entering enclosed areas, wear self-contained breathing apparatus.

## Section 6 Accidental Release Measures

**Spill** Eliminate all ignition sources. Remove unnecessary personnel from the affected area. Wear protective equipment as specified for handling. Ensure adequate ventilation. For large spill, or spills in confined spaces, provide mechanical ventilation to disperse or exhaust vapours, in accordance with good industrial hygiene practice. Warning! A motor could be an ignition source and could cause flammable gases or vapours in the spill area to burn or explode.

**Disposal** Avoid release to the environment. For larger spills, cover drains to prevent entry into sewer systems or bodies of water. Collect as much of the spilled material as possible. Use wet sweeping compound or water to avoid dusting. Sweep up. Place in a closed container approved for disposal in accordance with applicable local/national/international regulations. Dispose to approved landfill.



# Material Safety Data Sheet

## Section 7 Handling and Storage

**Handling** No special handling precautions are required for the product in the powdered form. Treat as for nuisance dust and take appropriate precautions. When molten, the product may cause skin burns upon contact. Avoid contact of molten material. Molten material can evolve flammable hydrocarbon fumes and should be handled accordingly. For trained personnel use only. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapours. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protective equipment (gloves, respirators, etc) as required. DO NOT heat over 230°C because the product will lead to flashing. Keep away from heat and sources of ignition.

**Storage** Store in cool, dry area. Refer to the relevant regulations for requirements.

## Section 8 Exposure Controls/ Personal Protection

**Exposure limits** Calcium carbonate; 10 mg/m<sup>3</sup>  
Titanium dioxide; 10 mg/m<sup>3</sup>  
Exposure standards represent airborne concentrations of individual chemical substances which, according to current knowledge, should neither impair the health of, nor cause undue discomfort to, nearly all workers.

**Engineering controls** Use in well ventilated areas to prevent dust build up. Use mechanical and/or natural ventilation to ensure that dust levels are maintained below the recommended exposure standard. Thermoplastic Pavement Marking Material should not be used in its molten form by anyone not formally trained in safe handling procedures.

### Personal Protection



Dust Mask



Hand Protection



Ear/Eye Protection



Wash Hands



# Material Safety Data Sheet

**Respiratory protection:** Where engineering controls or work practices do not control exposure to the required standard, it is advisable to wear a Dust/Mist Respirator (Class P1) complying to AS 1716. Positive pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Skin protection:** Protective gloves/clothing to prevent burn from molten material.

**Eye protection:** Safety glasses with side-shields.

**Other protective equipment:** Eyewash stations, safety showers, ventilation systems.

**Hygienic practices:** When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with industrial hygiene and safety practice.

## Section 9 Physical and Chemical Properties

<b>Appearance</b>	White powder Solid
<b>Odour</b>	Odourless
<b>Odour Threshold</b>	No Data Available
<b>Evaporation Rate</b>	Not Applicable
<b>pH</b>	Not Applicable
<b>Viscosity</b>	Not Applicable
<b>Solubility in Water</b>	Insoluble
<b>Softening Point</b>	125 ± 10 °C
<b>Glass Transition Temperature</b>	No Data Available
<b>Relative Density</b>	1.9 – 2.1 g/cm <sup>3</sup>
<b>Boiling Point</b>	Not Applicable
<b>Flash Point</b>	> 230°C
<b>Vapour Pressure</b>	Not Applicable
<b>Vapour Density</b>	Heavier than air
<b>Flammability (Solid, Gas)</b>	Not Classified
<b>Flammable Limits(LEL)</b>	Not Applicable
<b>Flammable Limits(UEL)</b>	Not Applicable
<b>Auto ignition temperature</b>	Not Applicable
<b>Decomposition temperature</b>	> 230°C
<b>VOC</b>	Not Applicable



# Material Safety Data Sheet

## Other Properties

Binder (pale yellow pellets) is soluble in solvents such as Toluene and most Chlorinated Hydrocarbon.

## Section 10 Stability and Reactivity

**Stability:** Stable under recommended storage conditions

**Conditions to Avoid:** Dust formation. Dust may form explosive mixture in air with sparks or flames.

**Incompatibility:** None Known.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**Possibility of Hazardous Decomposition Products:** Carbon oxides.

## Section 11 Toxicological Information

**Acute - Ingestion** Low toxicity, however ingestion should be avoided. Overexposure may cause irritation to mucous membranes.

**Acute – Eye** Direct contact may cause irritation. The molten product will cause serious burns.

**Acute - Skin** Slightly irritating upon direct contact. The molten product will cause severe burn.

**Acute – Inhalation** Inhalation of dust in high concentration may cause irritation of respiratory system. In Molten form, the material does not give off fumes that are toxic or injurious to persons or property. However, excessive inhalation of vapours in molten form can cause nose and throat irritation and may cause nervous system depression characterized by headache, dizziness, nausea, confusion and unconsciousness.

**Chronic Hazards** This product contains titanium dioxide in a non-respirable form. Inhalation of titanium dioxide is unlikely to occur from exposure to this product.



# Material Safety Data Sheet

## Section 12 Ecological Information

**Mobility:** Sinks in water.  
**Persistence / Degradability:** Resin will degrade very slowly.  
**Bioaccumulation:** Not significant.

## Section 13 Disposal Considerations

Dispose to landfill or by controlled incineration in chemical waste disposal area in accordance with relevant Commonwealth, State and Territory regulations.

## Section 14 Transport Information

Special Transport Precautions: When using in molten Form, this product is elevated temperature liquid, n.o.s.(compound pavement marking), UN3257, Hazard Class 9, Packing Group III.

## Section 15 Regulatory Information

Not applicable



# Material Safety Data Sheet

## Section 16 Other Information

### Disclaimer:

Dura Products Industries Pty Ltd makes no representation as to the completeness and accuracy of the data contained in this data sheet. It is the user's obligation to evaluate and use this product safely and to comply with all Local, State and Federal regulations and laws. Dura Products Industries Pty Ltd shall not be responsible for loss, damage or 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.

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