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Safety Data Sheet

Thermoplastic Road Marking Material - Preform

Revision: 07 **Issue date:** 19th Jun 2024 **Issued by:** DPI

Section 1 Identification of the Material and Supplier

Product name:	DPI Preform Thermoplastic – White, Colour
Product code:	PREFROM, PREFORM-COLOUR
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
Emergency Contact	13 11 26 –Australia Poisons Information Centre 000 or text 106 -For genuine emergencies only

Section 2 Hazard Identification

Hazard Classification
This mixtures 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.

Hazards Not Otherwise Classified
Molten form - Prevent skin contact, as the molten material can cause severe skin burns.

Section 3 Composition/Information on Ingredients

Chemical name	CAS No.	Wt.%
Resins and binders	64742-16-1	18%-30%
Pigment	13463-67-7	2%-10%
Silicon Dioxide	14808-60-7	≥ 20%
Calcium Carbonate	1317-65-3	50%-70%

Safety Data Sheet

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).

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.

Safety Data Sheet

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 dispose in accordance with applicable local/national/international regulations. Dispose to approved landfill.

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^{o}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.

Safety Data Sheet

Section 8 Exposure Controls/ Personal Protection

Exposure limits

Calcium carbonate; 10 mg/m^3
Titanium dioxide; 10 mg/m^3
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

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.

Safety Data Sheet

Section 9 Physical and Chemical Properties

Appearance	Preformed sheets in White, Black, Blue, Yellow and any required colours
Odour	Odourless
Odour Threshold	No Data Available
Evaporation Rate	No Data Available
pH	No Data Available
Viscosity	No Data Available
Solubility in Water	Insoluble
Softening Point	>95 ºC
Glass Transition Temperature	~15 ºC
Relative Density	1.9 – 2.1 g/cm^3
Boiling Point	No Data Available
Flash Point	> 230ºC
Vapour Pressure	No Data Available
Vapour Density	No Data Available
Flammability (Solid, Gas)	No Data Available
Flammable Limits(LEL)	No Data Available
Flammable Limits(UEL)	No Data Available
Auto ignition temperature	No Data Available
Decomposition temperature	> 230ºC
VOC	0 mg/m^3
Other Properties	Binder (pale yellow pallets) 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.

Safety Data Sheet

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.

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.

Safety Data Sheet

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

Section 16 Other Information

Disclaimer:
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