



SAFETY DATA SHEET

SECTION 1 – IDENTIFICATION

Product Name: Tuff-Mark® and Tuff-Mark® with Tuff-Grip® - Preformed Alkyd Thermoplastic Sheet, All Colors

Manufacturer: Crown USA, Inc.
Preformed Division
600 Poplar Drive
Thomaston, GA 30286
(706) 553-9500

Emergency Phone Number: Chemtrec (800) 424-9300

Issue Date: 02/10/2022

Product Use: Thermoplastic Pavement Marking Material

SECTION 2 – HAZARDS IDENTIFICATION

Physical Form/Appearance: Solid Thermoplastic Sheet

Primary Routes of Absorption: N/A

Skin: Not applicable for cold form. Heated thermoplastic can cause serious burns to unprotected skin.

Eye and Inhalation: Not applicable for cold form. Overexposure to hot fumes of molten material or dust from grinding or cutting may cause irritation to the eyes and respiratory tract. As always, care should be taken not to breathe hot fumes of any type. If such inhalation occurs, remove to a well-ventilated area.

SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient:</u>	<u>CAS No.</u>	<u>% Wt</u>
Alkyd Resin	68333-62-0	0 - 27
Maleic Modified Rosin Ester	8050-26-8	0 - 27
Calcium Carbonate	471-34-1	20 - 60
Titanium Dioxide	13463-67-7	0 - 14
Glass Oxide	65997-17-3	20 - 45
Polyamide Resin	NJTSRN-8769	5 - 15
White Fused Aluminum Oxide	1344-28-1	0 - 15

SECTION 4 – FIRST AID MEASURES

Skin:	For exposure to molten material cool immediately under running water. Do not apply ice as this may cause frost bite. Continue to cool under running water for an extended period of time. Do not attempt to remove the plastic as, in most cases the skin is also removed, resulting in severe tissue damage. Immediately call a physician and receive medical attention.
Eye:	For exposure to dust from grinding or cutting wash eyes with running water. See a physician if irritation persists. For exposure to molten material flush eyes with running water. Call a physician.
Inhalation:	For exposure to fumes or dust from grinding or cutting remove to a well-ventilated area. Call a physician if irritation persists.

SECTION 5 – FIRE FIGHTING MEASURES

Flash Point:	475°F COC
Extinguishing Media:	Dry Chemical, CO ₂ , Foam
Special Fire Fighting Procedures:	Toxic emissions may be released in a fire. Wear self-contained breathing apparatus.
Unusual Fire and Explosion Hazards:	None

SECTION 6 – ACCIDENTAL RELEASE MEASURES

N/A

SECTION 7 – HANDLING AND STORAGE

Handling:

During normal application local exhaust should be provided in unventilated work areas. Do not eat, drink, or smoke when using product. Precautions should be taken to prevent water damage by using the appropriate coverings. Wash thoroughly before eating, drinking, or smoking after using/handling material. Do not heat material above 450°F. Keeping water nearby during application is always recommended. Avoid breathing fumes from molten material or dust from grinding or cutting.

Storage:

Always store material in a cool dry place. If stored outside, always cover material to prevent damage which may be caused by moisture.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Application Precautions –

Ventilation:

Provide adequate local exhaust ventilation to reduce exposure to dust and fumes to maintain concentrations below acceptable exposure limits (see below). Ventilation for the application equipment must be provided to prevent excessive pressure and concentration of fumes which could lead to material flashing at low temperatures.

Personal Protective Equipment (PPE) –

Eyes:

Goggles, face shield

Skin:

Heat resistant gloves and clothing to help prevent injury from molten material. This includes long sleeve shirt, long pants, socks, hard sole shoes, and hat.

Respiratory:

When cutting or grinding NIOSHA/MSHA approved respirator as necessary. An organic vapor/dust-filtering respirator is recommended.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Appearance:	Solid Thermoplastic Sheet
Boiling Point:	Not applicable
Melting Point:	105°C-112°C (Ring & Ball Softening Point)
Specific Gravity:	2.1 (dry plastic sheet)
Vapor Pressure (mm Hg):	Not applicable
VOC (%):	Negligible
Evaporation Rate:	Not applicable
Vapor Density:	Not applicable
Solubility in Water:	Not applicable
Percent Volatile:	Not applicable
Flash Point:	>= 475°F (COC)

SECTION 10 – STABILITY AND REACTIVITY

Stability:	Stable
Hazardous Polymerization:	None
Conditions and Materials to Avoid:	Avoid temperatures above 450°F and strong oxidizing agents
Hazardous Decomposition Products:	CO, CO ₂ and, aliphatic aldehydes.

SECTION 11 – TOXICOLOGICAL INFORMATION

See section 15 – Regulatory Information

SECTION 12 – ECOLOGICAL INFORMATION

Not known

SECTION 13 – DISPOSAL CONSIDERATIONS

Waste Disposal Method:	Disposal should be made in accordance with Federal, State, and Local regulations. See section 15 – Regulatory Information.
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SECTION 14 – TRANSPORT INFORMATION

See section 15 – Regulatory Information

SECTION 15 – REGULATORY INFORMATION

Department of Transportation:	Non-Regulated
Toxic Substance Control Act:	All components of thermoplastic traffic markings are listed in the TSCA Inventory of Chemical Substances.
SARA TITLE III:	This product does not contain chemicals subject to reporting requirements of SARA Title III, Section 313 and of 40 CFR 372.
RCRA Statement:	This material is defined as non-hazardous when tested under 40 CFR 261 (see Table 1 of 40 CFR 261.24).

SECTION 16 – OTHER INFORMATION

NFPA	Health: 0	Flammability: 1	Reactivity: 0	Special Hazards: None
HMIS	Health: 0	Flammability: 1	Physical Hazard: 0	Personal Protective Equipment: X

The information provided is in compliance with the Federal Hazard Communication standard 29CFR1910.1200, to give warning of actual and assumed hazards, and to inform of generally applicable precautions and control measures which are known to Crown USA, Inc. Hazard information is based on available scientific evidence, but is not always obtained from sources under the direction or control of Crown USA, Inc. Crown USA, Inc. makes no warranty or representation that the information is accurate, reliable, complete or representative and Buyer may rely thereon only at Buyer's own risk. Crown USA, Inc. warrants only that it has made no effort to censor, other than trade secret information or to conceal hazards of its products. The data shown on these pages in no way modifies, amends or enlarges any specification or warranty.

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