

# MATERIAL SAFETY DATA SHEET

**Trade Name:** BLACK TOOLING GELCOAT

**Chemical** Unsaturated polyester resin

**Family:**

**Formula:** Mixture

**Manufacturer:** COOK COMPOSITES &  
POLYMERS CO.  
820 E. 14<sup>th</sup> Avenue  
North Kansas City, MO 64116

**Supplier:** COAST FIBER-TEK

1306 Boundary Road  
Burnaby, BC V5K 4T6  
Tel.# (604) 294-8116

**Emergency Phone #'s:** 1-800-821-3590

**Transportation EMG. Phone #** CANUTEC

(613) 996-6666

(604) 930-0650

## **HAZARDOUS INGREDIENTS:**

<b>Styrene Monomer:</b>	43.651%	CAS # 100-42-5
<b>Carbon Black:</b>	.14%	CAS # 001333-86-4
<b>Methyl Methacrylate:</b>	4.455%	CAS # 000080-62-6
<b>Unsaturated Polyester Resin:</b>	20-30%	CAS # Proprietary

## **Exposure Limits:**

Styrene: LD50 Oral rat 5000.0 mg/kg, LD50 Skin rat 2820.0 mg/kg, LC50 Inhl. rat 2770.0 ppm  
Carbon Black: ACGIH TLV/TWA: 3.5 MG/CU. M, OSHA PEL/TLV: 3.5 MG/CU. M.  
Methyl Methacrylate: ACGIH TLV/TWA: 410 MG/CU.M., OSHA PEL/TWA: 410 MG/CU.M.  
LD50, Oral: 7.9 g/kg(Rat), L;D50, Dermal: 35.5 g/kg(Rabbit),  
LD50, Inh.: >12,500 ppm/0.5(Rat)

## **PHYSICAL DATA:**

**Appearance & Odour:** Viscous liquid, aromatic odour, black  
**Vapour Pressure:** (mm Hg) 4.5 mmHg @ 20°C (Styrene), 29mmhg @ 20°C  
**Vapour Density:** (air = 1) 3.6  
**Solubility in Water:** insoluble  
**Specific Gravity:** 1.08  
**Evaporation Rate:** N/A  
**Boiling Point:** 100°C  
**pH:** not applicable

## **FIRE & EXPLOSION DATA:**

**Flashpoint & Method:** 22-37°C (PMCC)  
**Flammable Limits:** LFL 1.1% (styrene), UFL 6.1% (styrene)  
**Extinguishing Methods:** foam, dry chemical, CO2, water fog  
**Special Equipment & Procedures:** Self contained breathing apparatus & complete protective clothing.  
Keep all sources of ignition away as fumes may ignite.

## **REACTIVITY DATA:**

**Conditions Contributing to Instability:** Heat and direct sunlight  
**Incompatible Substances:** Strong OXIDIZING AGENTS, Strong ACIDS, BASES  
**Hazardous Decomposition Products:** Carbon Monoxide & Carbon Dioxide  
**Hazardous Polymerization:** May occur with excess heat or direct sunlight

## **HEALTH HAZARDS DATA:**

***NOTE:*** Health studies have shown that exposure to chemicals pose potential risks which may vary from person to person. Exposure to liquids, vapours, mists or fumes should be minimized.

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Black Tooling Gelcoat - Pg 2

## **PRINCIPAL HEALTH HAZARDS:**

- Skin Contact: Prolonged / repeated exposure may cause irritation and drying or flaking of skin with possible dermatitis.
- Eye Contact: May cause irritation producing tears. May cause slight temporary corneal injury (Blurred vision, redness)
- Ingestion: Moderately toxic. May cause nausea and vomiting..
- Inhalation: May cause irritation and upper respiratory tract discomfort, headache, nausea, insensibility and other nervous system effects. Repeated exposure to high concentrations may cause liver and kidney damage.
- Chronic Effects: Contains styrene monomer, a possible carcinogen.

## **FIRST AID PROCEDURES:**

- Skin: Avoid direct contact with this chemical, wash with soap and water, seek medical attention
- Eyes: Flush with warm water for 20 minutes, obtain medical attention
- Ingestion: **DO NOT INDUCE VOMITING** have victim drink 8 to 10 oz of water to dilute materials in stomach.. Seek medical attention.
- Inhalation: Remove victim to fresh air if ill effects develop. If effects persist, administer oxygen, apply A/R if necessary and seek immediate medical attention.

## **PREVENTIVE MEASURES:**

- Skin: Always apply appropriate barrier cream to exposed skin. Wear impervious gloves (butyl rubber), coveralls and safety footwear.
- Eyes: Chemical proof goggles or full face respirator if vapours cause eye irritation.
- Ingestion: Wash thoroughly before consuming food stuffs.
- Inhalation: Use only in well ventilated areas or use NIOSH approved respiratory protection with organic vapour cartridges.

## **CONTROL MEASURES & PRECAUTIONS**

Keep container tightly closed. Do not consume food, drink or tobacco in work area or material storage areas. Use caution and personal cleanliness to avoid skin and eye contact. Avoid breathing vapours of heated materials. Use paper covering absorbent wipes and suitable disposable containers in work area.

## **SPILL, LEAK & DISPOSAL METHODS**

**Review fire and explosion hazards and safety precautions before proceeding with clean up.** Restrict access to area. Contain spill to prevent liquid from entering sewers or waterways. Recover free liquid and use an absorbent material (i.e. sand, vermiculite) to soak up balance. Place in suitable container for disposal.

## **DISPOSAL METHOD**

Dispose only in a facility permitted to dispose of hazardous waste by Federal, Provincial and Municipal regulations.

## **SHIPPING INFORMATION**

Shipping Name: Flammable Liquid NOS (styrene)  
Hazard Class: 3  
UN/PIN #: 1993 III  
Flashpoint: 22-37°C  
WHMIS: B2, D2A, D2B

The information contained herein is based on data that we believe to be accurate. No warranty either expressed or implied is made. This information is offered solely for your consideration interpretation and information.

**Preparation Date:** January 31, 2003  
**Prepared by:** Nigel Poore, 1306 Boundary Road, Burnaby, BC V5K 4T6  
**Telephone #:** (604) 294-8116  
**Revision Date:** January 2, 2007

N/A = Not Available