



Distributor: Mager Scientific
1100 Baker Rd.
P.O. Box 160
Dexter MI 48130-0160

Phone: (734) 426-3885

Distributor Product No.

MP-141-5

MP-141-25

MP-141-50

MP-141-100

Manufacturer: Sumitomo Bakelite North America

Manufacturer Product No.: Epiiall Thermoset Molding Compound, 1904B-1

Dear Customer:

In order to comply with the Hazard Communication Law which went into effect November 25, 1985, attached is the material safety data sheet pertaining to our product noted above.

Additional sheets are available upon request. Please feel free to contact us if we can be of further assistance.

Sincerely,

Mager Scientific, Inc.
Customer Service

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME: Epiall®1904B-1 Black Engineering Thermoset Material

CHEMICAL NAME: NA (mixture)

CHEMICAL FAMILY: Epoxy Molding Compound

HMIS RATING: H 1 F 1 R 1

CAS NUMBER: NA (All components are TSCA listed.)

INFORMATION PHONE: 860-646-5500

CHEMTREC EMERGENCY PHONE: 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Name</u>	<u>CAS No.</u>	<u>%</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>
Titanium Dioxide	13463-67-7	<3	15 mg/m ³	10 mg/m ³
Glass Fiber (respirable nuisance dust)	65997-17-3	<50	5 mg/m ³	10 mg/m ³
Proprietary inert mineral (respirable nuisance dust)		< 40	5 mg/m ³	NE
Aluminum Silicate (respirable nuisance dust)	1332-58-7	<20	5 mg/m ³	5 mg/m ³
Epoxy Novolac Polymer	29690-82-2	<20	NE	NE
Phenolic Polymer	9003-35-4	<10	NE	NE
Phenol*	108-95-2	<0.3	5 ppm	5 ppm
Carbon Black*	1333-86-4	<0.3	3.5 mg/m ³	3.5 mg/m ³

The remaining ingredients are not hazardous as defined in OSHA's Hazard Communication Standard 29 CFR 1910.1200.

*See Sections 3 and 11.

3. HAZARDS IDENTIFICATION

EFFECTS OF OVEREXPOSURE: Dust will cause nose and throat irritation and will be moderately irritating to the eyes. Dust is irritating to skin upon repeated and prolonged contact. Sensitized individuals may experience allergic skin reactions.

*Phenol vapors may be released during molding processes. Overexposure to these vapors may cause irritation to eyes, nose, throat, and skin. Sensitized individuals may experience allergic skin reactions.

*IARC has listed carbon black as a Class 2B possible human carcinogen based on laboratory studies with animals.

INHALATION: Dusts and vapors may cause irritation of the respiratory tract.

EYE CONTACT: Dusts and vapors may cause irritation.

SKIN CONTACT: May cause irritation and/or allergic reactions in sensitized individuals.

INGESTION: None known.

CHRONIC: Yes

PHYSICAL HAZARDS: WARNING: Airborne dust particles may form an explosive air-dust mixture

4. FIRST-AID MEASURES

INHALATION: Move subject to fresh air. If respiration stops, apply appropriate emergency resuscitation techniques. Get medical attention.

EYE CONTACT: Flush eyes with water for at least 15 minutes. Call a physician if irritation persists.

SKIN CONTACT: Wash with soap and water at first opportunity.

INGESTION: If accidentally swallowed, dilute by drinking large quantities of water. Immediately contact poison control center or hospital emergency room for any other treatment directions.

5. FIRE-FIGHTING MEASURES

FLASH POINT: NA NE LEL NE UEL

METHOD USED: NA

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHING MEDIA: X Water Fog X Foam X CO₂
X Dry Chemical _____ Other

SPECIAL FIRE FIGHTING PROCEDURES: Wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.

UNUSUAL FIRE AND EXPLOSION HAZARDS: CAUTION: high concentration of airborne dust may form an explosive mixture with air. Ensure that good housekeeping practices are followed, as well as applicable guidelines such as National Fire Protection Association (NFPA) 654, "Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids."

HAZARDOUS DECOMPOSITION PRODUCTS: Phenol, formaldehyde, alkyl phenols, CO_x, and aromatic hydrocarbons may be generated at elevated temperatures (>540°C)

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing fumes from molding or other processes involving heat. Avoid breathing dusts from cutting, machining or deflashing operations. Guard against dust accumulation of this material. High concentrations of airborne dust may form explosive mixture with air. As with all chemicals, good industrial hygiene practices should be followed when handling this material.

ENVIRONMENTAL PRECAUTIONS: None needed.

CLEANING METHODS:

Sweep or vacuum spills. To minimize dust, vacuum cleaning is preferred.

7. HANDLING AND STORAGE

HANDLING:

Avoid breathing fumes from molding or other processes involving heat. Avoid breathing dust from cutting, machining, or deflashing operations. Avoid high concentrations of dust in air and accumulation on equipment. Fine dust of this material in heavy concentration can create a dust explosion hazard.

STORAGE:

Keep container closed and sealed when not in use. Store in cool, dry place below 40°F.

8. ENGINEERING CONTROLS/PERSONAL PROTECTION

VENTILATION

LOCAL:

Use mechanical local exhaust at point of contaminant release.

GENERAL:

Ventilation should be sufficient to effectively remove and prevent buildup of any vapors, dusts, or fumes that may be generated during handling or thermal processing.

PERSONAL PROTECTION

HAND:

Impervious gloves should be worn to prevent skin contact (neoprene, latex, rubber, milled nitrile, or butyl).

EYE:

Wear safety glasses with side shields (ANSI Z87.1 or equivalent).

SKIN:

Wear appropriate protective clothing to minimize skin contact.

OTHER:

Use MSHA/NIOSH approved respiratory protection if level of air contaminants exceeds action levels set by local regulatory agencies.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE:

Black Colored Granules

ODOR:

Mild & Characteristic

PHYSICAL STATE:

Solid

BOILING POINT:

NA

MELTING POINT:

NE

FREEZING POINT:

NE

WATER SOLUBILITY:

Negligible

VAPOR PRESSURE:

Negligible at 20°C

SPECIFIC GRAVITY:

1.90-2.15

PARTITION COEFFICIENT:

NA

EXPLOSIVE PROPERTIES:

NA

EVAPORATION RATE:

NA

DENSITY:

NA

VISCOSITY:

NA

IGNITION:

NA

pH:

NA

10. STABILITY AND REACTIVITY

STABLE X UNSTABLE

CONDITIONS TO AVOID: High temperatures.

MATERIALS TO AVOID: Strong oxidizing agents, strong acids.
HAZARDOUS POLYMERIZATION: _____ May Occur _____ X _____ Does Not Occur
HAZARDOUS DECOMPOSITION PRODUCTS: Phenol, formaldehyde, alkyl phenols, CO_x, and aromatic hydrocarbons may be generated at elevated temperatures.

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC HAZARDS: *Carbon black is listed under California's Proposition 65 as human carcinogens.
REPRODUCTIVE HAZARDS: None known

12. ECOLOGICAL INFORMATION

Based on current information, there are no special regulations.

13. DISPOSAL CONSIDERATION

ENVIRONMENTAL TOXICITY DATA: See below.
WASTE DISPOSAL METHOD: In accordance with all local, state, and federal regulations.
CONTAINER DISPOSAL: In accordance with all local, state, and federal regulations.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: Not regulated.
DOT HAZARD CLASSIFICATION: Non-hazardous.
PACKING GROUP: Not regulated.
UN/NA CODE: Not regulated.

15. REGULATORY INFORMATION

TSCA
(*Toxic Substances Control Act*): All ingredients are TSCA listed.
CERCLA
(*Comprehensive Emergency Response, Compensation, and Liability Act*): Release of phenol above RQ level requires reporting.
SARA TITLE III
(*Superfund Amendments and Reauthorization Act*): Release of phenol above TPQ level requires reporting.
311/312 HAZARD CATEGORIES: Release of phenol may require reporting depending on the amount of compound used.

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:

<u>CAS #</u>	<u>CHEMICAL NAME</u>	<u>PERCENT BY WEIGHT</u>
108-95-2	Phenol	<0.3

16. OTHER INFORMATION

NA = Not Applicable
NE = Not Established

FILE: 1904B-1blackmsds.doc

DATE PREPARED: 6-11-07

PREPARED BY:
REVIEWED BY:

Daniel P. Dalenberg
Brian Carra

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