



# MATERIAL SAFETY DATA SHEET



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** Epoxylite 813 Part B

July 29, 2010

Vishay Measurements Group, Inc.  
Post Office Box 27777  
Raleigh, NC 27611

919-365-3800

CHEMTREC 1-800-424-9300 (U.S.)  
703-527-3887 (Outside U.S.)

NOTE: CHEMTREC numbers to be used only in the event of chemical emergencies involving a spill, leak, fire, exposure or accident involving chemicals.

## SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

CAS NUMBER	CHEMICAL IDENTITY	%
14808-60-7	Crystalline Silica	10-30
14807-96-6	Magnesium Silicate Talc	10-30
89-32-7	Pyromellitic Dianhydride	30-60
89-05-4	1,2,4,5-Benzenetetracarboxylic Acid	1-5
1318-59-8	Chlorite	1-5

## SECTION 3: HEALTH HAZARD DATA

### Routes of Entry:

**Inhalation:** Yes    **Skin:** Yes    **Ingestion:** Accidental

**Health Hazards (Acute and Chronic):** Repeated or prolonged contact may cause respiratory sensitization. Long-term inhalation of crystalline silica dusts may cause lung disease. Repeated or prolonged inhalation of air-borne dust of this material may cause scarring of the lungs (pulmonary fibrosis), with shortness of breath, chronic cough, and respiratory assisted heart failure. Prolonged exposure to talc can produce a symptomatic talc pneumoconiosis.

EpoxyLite 813 Part B MSDS (Continued)

**Carcinogenicity:** NTP: See Note  
IARC Monographs: See Note  
OSHA Regulated: See Note

NOTE: Crystalline silica has been classified as a probable human carcinogen by IARC.

NOTE: This product contains a chemical known to the State of California to cause cancer.

**Signs and Symptoms of Exposure:**

**INHALATION:** May cause irritation of the mucous membranes. May cause respiratory tract sensitization.

**EYE CONTACT:** Causes eye irritation. Corneal injury may occur.

**SKIN CONTACT:** Causes skin irritation.

**INGESTION:** Effects of ingestion are unknown.

**Conditions Generally Aggravated by Exposure:** Over exposure may aggravate existing eye, skin and/or respiratory disorders.

<b>SECTION 4: EMERGENCY AND FIRST AID PROCEDURES</b>
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**INHALATION:** If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult physician.

**EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Consult a physician.

**SKIN CONTACT:** In case of contact, immediately flush skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash and thoroughly clean contaminated clothing and shoes before reuse. Consult a physician.

**INGESTION:** If swallowed, consult a physician. Do NOT induce vomiting. Dilute with 1-2 glasses of water. Never give anything by mouth to an unconscious person.

<b>SECTION 5: FIRE AND EXPLOSION HAZARD DATA</b>
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**Flash Point (Method Used):** >201°F ( 94 °C)

**Flammable limits:** LEL: Not known UEL: Not known

**Extinguishing Media:** Carbon dioxide, dry chemical, foam, and water mist.

**Special Firefighting Procedures:** Remove all ignition sources. Keep personnel not involved with emergency activity away and upwind of fire. Water spray may be ineffective and cause fire to spread. If water is used, fog nozzles are preferable. Water may be used to cool closed containers in order to prevent pressure build up which may result in an explosion. Use self-contained breathing apparatus and protective clothing.

**Unusual Fire and Explosion Hazards:** Material will polymerize at very high temperatures.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

**Steps to be taken if material is released or spilled:** Remove all ignition sources. Ventilate area. Avoid breathing vapors. Stop leak. Dike and contain spill. Sweep or vacuum and place into closable container for disposal, avoiding dusty conditions. Wear protective equipment during clean up.

## SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

**Respiratory Protection:** Wear an appropriate, properly-fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates that vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

**Ventilation:** Use with adequate ventilation. Provide general dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the applicable exposure limit. All application areas should be ventilated in accordance with applicable OSHA regulations.

**Protective Gloves:** Impervious gloves required.

**Eye Protection:** Use safety eyewear designed to protect against splash of liquids.

**Other Protective Clothing or Equipment:** As needed to prevent contact.

**Work / Hygienic Practices:** Wash thoroughly after handling and before eating, drinking or smoking. Eyewash station and emergency shower should be available.

## SECTION 8: HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Keep closure tight and container upright to prevent leakage. Store container out of sunlight and away from heat, sparks, and flame. Store in well ventilated area. Do not get in eyes. Avoid skin contact. Prevent repeated or prolonged breathing of vapor or spray mist. Avoid contact with or breathing of vapors during curing process.

**Other Precautions:** Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near this container. Follow label warnings until container is thoroughly cleaned or destroyed.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Boiling Point:	Not known
Vapor Pressure (mmHg):	<0.75 @ 68°F (20°C) for Pyromellitic Dianhydride
Vapor Density (Air = 1):	2.0060g/cm <sup>3</sup> at 77°F (25°C)
Specific Gravity (H <sub>2</sub> O = 1):	2.01
Melting Point:	Not known
Evaporation Rate (BuAc = 1):	Not known
Volatile Organic Compounds:	0%
Solubility in Water:	Soluble

Appearance and Odor: White powder, no odor.

**SECTION 10: STABILITY AND REACTIVITY DATA**

Stability: Stable.

Conditions to Avoid: Warm storage, ignition sources, and moisture contamination. Contact with water or moist air causes production of opaque and corrosive fumes.

Incompatibility (Materials to Avoid): Acids and bases, strong oxidizing agents.

Hazardous Decomposition or By-products: Carbon dioxide, carbon monoxide and toxic vapors, nitrogen oxides.

Hazardous Polymerization: Material will polymerize at very high temperatures.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Crystalline Silica

OSHA PEL:	0.1 mg/ m <sup>3</sup>
ACGIH TLV:	0.025 mg/m <sup>3</sup>
OTHER:	None listed

Magnesium Silicate Talc

OSHA PEL:	20 ppm
ACGIH TLV:	2.0 mg/m <sup>3</sup>
OTHER:	None listed

Pyromellitic Dianhydride

OSHA PEL:	Not determined
ACGIH TLV:	Not determined
OTHER:	ORAL (MOUSE) LD <sub>50</sub> : 2.4 mg/kg

EpoxyLite 813 Part B MSDS (Continued)

1,2,4,5-Benzenetetracarboxylic Acid

OSHA PEL: Not listed  
ACGIH TLV: Not listed  
OTHER: Not listed

Chlorite

OSHA PEL: Not listed  
ACGIH TLV: Not listed  
OTHER: Not listed

**SECTION 12: DISPOSAL CONSIDERATIONS**

**Waste Disposal Method:** Dispose of in accordance with local, state, and federal environmental regulations.

**SECTION 13: TRANSPORTATION INFORMATION**

SHIPPING NAME	CLASS	UN NUMBER
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Not regulated.

**SECTION 14: REGULATORY INFORMATION**

**SECTION 313 SUPPLIER NOTIFICATION:**

This product contains a toxic chemical or chemicals (as listed below) subject to the reporting requirements of Section 313 Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR Part 372.

CAS NUMBER	CHEMICAL NAME	% BY WEIGHT
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None listed

**TSCA NOTIFICATION:**

All components of this product are listed in the Toxic Substance Control Act Chemical Substance Inventory (TSCA).

Warning: This product contains a chemical known to the State of California to cause cancer.

**SECTION 15: OTHER INFORMATION**

To the best of our knowledge, the information provided above meets the requirements of the United States Occupational Safety and Health Act and regulations established under 29 CFR 1910.1200 (g)(2)(c)(1)-(4) for a mixture of hazardous chemicals which has not been tested as a whole. The data provided on this Material Safety Data Sheet is from manufacturers of the original components. Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.