



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Epoxylite 813 Part A

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
NA	Bisphenol A-Epichlorohydrin Based Epoxy Resin	1-5
106-89-8	Epichlorohydrin	Trace

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

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

Health Hazards (Acute and Chronic): May cause allergic skin reaction in susceptible individuals. May cause sensitization with repeated or prolonged contact.

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

EpoxyLite 813 Part A MSDS (Continued)

NOTE: This product contains Crystalline Silica and Talc, particulates that are considered hazardous by OSHA (Table Z-3). Crystalline Silica is also listed as a carcinogen by IARC and NTP. Under normal conditions of use, this product as supplied does not pose a health risk from particulate matter. Physical degradation of the cured product (i.e., sanding, abrading, etc.) may pose a dust hazard. Repeated inhalation of such dust may cause lung injury.

NOTE: This product contains a chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

Signs and Symptoms of Exposure:

INHALATION: Vapors at high temperatures may cause irritation. May cause allergic respiratory reaction.

EYE CONTACT: May cause mild eye irritation. Direct contact with the product or exposure to vapors or mist may cause stinging, tearing and redness.

SKIN CONTACT: May cause allergic skin reaction. Prolonged contact may result in discoloration, swelling, scaling and/or blistering. May be harmful if absorbed through skin. May cause sensitization by skin contact.

INGESTION: Harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

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

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a 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. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): >201°F (>94°C) Estimate

Flammable limits: LEL: Not known UEL: Not known

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

Special Firefighting Procedures: Firefighters should wear self-contained breathing apparatus to avoid inhalation of smoke or vapors.

Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic. Do not use a solid water stream as it may scatter and spread fire. The pressure in sealed containers can increase under the influence of heat. 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. Provide adequate ventilation. Avoid breathing vapors. Shut off source of spill if it can be done safely. Use non-sparking tools. Absorb with inert absorbent material and dispose of in accordance with applicable regulations.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Respiratory protection may be required if material is used in poorly ventilated areas or if material is sprayed or heated.

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 (OSHA PEL). 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: Specific personal protective equipment will depend on the product user's operation.

Work / Hygienic Practices: Wash thoroughly after handling and before eating, drinking or smoking. Eyewash and safety 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 a 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):	Not known
Vapor Density (Air = 1):	Not known
Specific Gravity (H ₂ O = 1):	1.41
Melting Point:	Not known
Evaporation Rate (BuAc = 1):	Not known
Volatile Organic Compounds:	0%
Solubility in Water:	Insoluble

Appearance and Odor: Gray liquid; slight odor.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable at room temperatures.

Conditions to Avoid: Heat, flame, sparks. Excess heating over long periods of time degrades the resin.

Incompatibility (Materials to Avoid): Strong oxidizing agents, bases, acids and metallic halides.

Hazardous Decomposition or By-products: The by-products expected in incomplete pyrolysis or combustion of epoxy resins are mainly phenolics, carbon monoxide and water.

Hazardous Polymerization: May occur

SECTION 11: TOXICOLOGICAL INFORMATION

Crystalline Silica

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

Magnesium Silicate Talc

OSHA PEL:	2.0 mg/m ³
ACGIH TLV:	2.0 mg/m ³
OTHER:	LD ₅₀ RAT ORAL 11,4000 mg/kg

EpoxyLite 813 Part A MSDS (Continued)

Epoxy Resin

OSHA PEL: Not determined
ACGIH TLV: Not determined
OTHER: Not determined
ORAL (RAT) LD₅₀: 11400 mg/kg
DERMAL (RABBIT) LD₅₀: 23400 MG/KG

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).

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.