



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: EPY-150 Resin

April 13, 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	%
25068-38-6	Bisphenol A/Epichlorohydrin Based Epoxy Resin	>50
122-60-1	Phenyl Glycidyl Ether	Trace

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

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

Health Hazards (Acute and Chronic): Repeated contact or breathing of vapors may cause irritation; material is also a skin sensitizer.

Carcinogenicity: NTP: Not listed
 IARC Monographs: Not listed
 OSHA Regulated: Not listed

Signs and Symptoms of Exposure:

INHALATION: Unlikely to be hazardous by inhalation because of the low vapor pressure of the material at ambient temperature. Vapor or aerosol, if generated, can cause irritation of the eye, nose and respiratory tract.

EYE CONTACT: Irritating but does not injure eye tissue. Contact with eyes causes redness and discomfort which is transient.

SKIN CONTACT: Irritating to the skin. Repeated and/or prolonged contact may cause skin sensitization.

INGESTION: Low oral toxicity. Ingestion may cause irritation of the gastrointestinal tract. May cause nausea, vomiting and diarrhea.

Conditions Generally Aggravated by Exposure: Unknown.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention.

EYE CONTACT: Irrigate with eyewash solution or clean water until pain is relieved. If symptoms develop, obtain medical attention.

SKIN CONTACT: Wash skin with soap and water. Remove contaminated clothing. If symptoms develop, obtain medical attention.

INGESTION: Do not attempt to give anything by mouth to an unconscious person. Do NOT induce vomiting. If individual is conscious, give milk or water to dilute stomach contents. Keep warm and quiet. Get prompt medical attention.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): >484°F (248.6°C) Pensky Martens Closed Tester

Flammable limits: LEL: N/A UEL: N/A

Extinguishing Media: Dry chemical, chemical foam, carbon dioxide. Do not use direct water stream on burning liquid.

Special Firefighting Procedures: A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Cool exposed containers with water spray.

Unusual Fire and Explosion Hazards: Combustible at high temperatures. Combustion will evolve toxic and irritant vapors. Polymerization may take place at elevated temperatures.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Prevent skin and eye contact. Soak up in absorbent material, or scrape up and transfer to disposal container. Wipe up remaining residue with solvents, observing solvent flammability cautions, or use detergents. Do not allow to enter drains, sewers or water courses.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: None required under normal handling conditions. Use NIOSH approved respirator if vapor or mist levels are irritating.

Ventilation: Local or mechanical exhaust recommended.

Protective Gloves: Rubber or plastic disposable gloves.

Eye Protection: Safety glasses or goggles.

Other Protective Clothing or Equipment: As required to prevent contact.

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

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Keep containers properly sealed and store indoors in a well ventilated area. Keep away from heat and sources of ignition. Keep away from oxidizing agents. Keep away from acids. Store away from amines.

Other Precautions: Prevent skin and eye contact. Avoid breathing vapors.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	>500°F (257°C)
Vapor Pressure (mmHg):	<1
Vapor Density (Air = 1):	Not applicable
Specific Gravity (H₂O = 1):	1.2
Melting Point:	Unknown
Evaporation Rate (BuAc = 1):	Unknown
Volatile Organic Compounds:	Not determined
Solubility in Water:	Low

Appearance and Odor: Light yellow liquid, mild odor.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Avoid uncontrolled excess heating over long periods; avoid uncontrolled amine reactions.

Incompatibility (Materials to Avoid): Strong acids and bases, strong oxidizing agents, amines.

Hazardous Decomposition or By-products: Carbon monoxide, carbon dioxide, chlorine compounds, hydrocarbons of indeterminate nature (depending on conditions).

Hazardous Polymerization: Heat may cause hazardous polymerization may polymerize with amine products.

SECTION 11: TOXICOLOGICAL INFORMATION

Bisphenol A/Epichlorohydrin

OSHA PEL: Not established
ACGIH TLV: Not established
OTHER: Oral (Rat) LD₅₀ 11400 mg/kg
Dermal (Rabbit) LD₅₀ 20000 mg/kg

Silica, Amorphous, Fumed, Crystalline Free

OSHA PEL: Not established
ACGIH TLV: Not established
OTHER:

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 for shipping.

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

EPY-150 Resin MSDS (Continued)

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.