



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: PLM-4R

April 14, 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	Diglycidyl Ether of Bisphenol A	100
106-89-8	Epichlorohydrin	<0.01

*NOTE: CAS # 25068-38-6 is an epoxy resin produced by the condensation reaction of epichlorohydrin and bisphenol A. The epichlorohydrin is consumed in the process and residual levels are controlled to 2-3 ppm maximum.

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Possible Skin: Yes Ingestion: Not probable

Health Hazards (Acute and Chronic): Skin and eye irritation and allergic skin reaction.

Carcinogenicity: NTP: Yes*
IARC Monographs: Yes*
OSHA Regulated: NA

*NOTE: Epichlorohydrin is listed as a possible carcinogen in NTP and IARC Monographs.

PLM-4R MSDS (Continued)

Signs and Symptoms of Exposure:

INHALATION: No symptoms known.

EYE CONTACT: May cause irritation.

SKIN CONTACT: May cause skin irritation and allergic skin reactions. Sensitization is possible in susceptible individuals.

INGESTION: No symptoms known.

Conditions Generally Aggravated by Exposure: Pre-existing skin and eye conditions.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES
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INHALATION: Move victim to fresh air. Call a physician.

EYE CONTACT: Immediately flush eyes with plenty of water for 15 minutes. Call a physician.

SKIN CONTACT: Immediately wash affected area with soap and water. Remove contaminated clothing and launder before reuse. Destroy contaminated shoes.

INGESTION: If conscious, give 2-4 glasses of water to drink. DO NOT induce vomiting. Call a physician.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA
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Flash Point (Method Used): 455°F (235°C) TCC

Flammable limits: LEL: Not established UEL: Not established

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

Special Firefighting Procedures: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full faceshield operated in a positive pressure mode. Move containers from fire area if it can be done safely. Use water to keep fire-exposed containers cool.

Unusual Fire and Explosion Hazards: Decomposition and combustion products may be toxic.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Remove spilled material by absorbing in absorbent material.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Use NIOSH approved organic vapor cartridge respirator when vapor/mist exposure is likely.

Ventilation: Use general mechanical and local exhaust in accordance with ACGIH recommendations.

Protective Gloves: Wear chemical resistant gloves.

Eye Protection: Wear splash-proof chemical goggles.

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

Work / Hygienic Practices: Use good industrial hygiene practice. Wash hands using soap and water after use and before eating, drinking or smoking. Wash contaminated clothing before reuse.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

Other Precautions: Nuisance dust may be generated when sanding or sawing cured material.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	>626°F (327°C)
Vapor Pressure (mmHg):	@212°F (100°C) <1 mmHg
Vapor Density (Air = 1):	Not determined
Specific Gravity (H₂O = 1):	1.17
Melting Point:	Not known
Evaporation Rate (BuAc = 1):	Not determined
Volatile Organic Compounds:	Negligible
Solubility in Water:	Insoluble

Appearance and Odor: Clear amber liquid.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Excessive heat for prolonged periods of time.

Incompatibility (Materials to Avoid): Strong oxidizers, acids and bases.

Hazardous Decomposition or By-products: Combustion may form toxic materials, such as carbon dioxide and/or carbon monoxide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Diglycidyl Ether of Bisphenol A

OSHA PEL:	NE
ACGIH TLV:	NE
OTHER:	ORAL (RAT) LD ₅₀ 11.4 g/kg ORAL (MOUSE) LD ₅₀ 15.6 g/kg SKIN (RABBIT) LD ₅₀ >20 ml/kg

Epichlorohydrin

OSHA PEL:	2 ppm SKIN
ACGIH TLV:	0.5 ppm SKIN
OTHER:	Potential contribution to overall exposure is possible by skin exposure.

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
106-89-8	Epichlorohydrin	<0.01

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.