



# MATERIAL SAFETY DATA SHEET



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: PL-2

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	Bisphenol A Diglycidyl Ether Polymer	>90.0
3101-60-8	P-Tert Butyl Phenyl Glycidyl Ether	1.0-10.0

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

106-89-8	Epichlorohydrin	2-3 ppm
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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: Yes    Skin: Yes    Ingestion: Accidental

**Health Hazards (Acute and Chronic):** Over exposure to this material can cause sensitization and allergic skin reaction. May cause skin irritation.

PL-2 MSDS (Continued)

<b>Carcinogenicity:</b>	NTP:	Not listed
	IARC Monographs:	Not listed
	OSHA Regulated:	Not listed

**Signs and Symptoms of Exposure:**

**INHALATION:** Not listed.

**EYE CONTACT:** May cause irritation.

**SKIN CONTACT:** May cause irritation. May cause skin sensitization in some individuals.

**INGESTION:** Based on similar product testing, product may be slightly toxic.

**Conditions Generally Aggravated by Exposure:** Allergy, eczema, skin conditions.

<b>SECTION 4: EMERGENCY AND FIRST AID PROCEDURES</b>
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**INHALATION:** If inhaled, remove victim from area to fresh air. Get medical attention if respiratory irritation develops or if breathing becomes difficult.

**EYE CONTACT:** For eye contact, flush eyes with plenty of water for 15 minutes. Get medical attention if irritation occurs.

**SKIN CONTACT:** For skin contact, wash affected areas with plenty of soap and water. Remove and clean contaminated shoes and clothing. Get medical attention if irritation occurs.

**INGESTION:** If swallowed, give at least 3 to 4 glasses of water but do NOT induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.

**NOTE:** Promptly remove wet contaminated non-impervious clothing. Wash before reuse.

<b>SECTION 5: FIRE AND EXPLOSION HAZARD DATA</b>
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**Flash Point (Method Used):** 390°F (199°C) Closed cup

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

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

**Special Firefighting Procedures:** Use self-contained breathing apparatus.

**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:** Avoid all personal contact. Take up with absorbent material. Shovel into closable containers. Flush contaminated area with water.

## SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

**Respiratory Protection:** Organic chemical cartridge respirator if needed.

**Ventilation:** Good general mechanical ventilation and local exhaust.

**Protective Gloves:** Wear impervious gloves.

**Eye Protection:** Wear splashproof chemical goggles.

**Other Protective Clothing or Equipment:** Wear appropriate personal protective equipment to prevent eye or skin contact. Use of barrier cream recommended.

**Work / Hygienic Practices:** Wash thoroughly after handling.

## SECTION 8: HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Avoid contact with eyes, skin, or clothing. Avoid breathing vapor, mist, or spray. Use with adequate ventilation. Promptly remove wet contaminated non-impervious clothing before reuse. Individuals should wash thoroughly after handling. Destroy contaminated leather and absorbent shoes.

**Other Precautions:** WARNING! Sensitizer - can cause allergic skin reactions. Store in a sealed container to prevent moisture absorption and contamination.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	Not known
<b>Vapor Pressure (mmHg):</b>	Not known
<b>Vapor Density (Air = 1):</b>	Not known
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.16
<b>Melting Point:</b>	Not known
<b>Evaporation Rate (BuAc = 1):</b>	Not known
<b>Volatile Organic Compounds:</b>	None
<b>Solubility in Water:</b>	Insoluble

**Appearance and Odor:** Clear liquid; slight odor.

**SECTION 10: STABILITY AND REACTIVITY DATA**

**Stability:** Stable.

**Conditions to Avoid:** Elevated temperatures, strong acids or bases in bulk.

**Incompatibility (Materials to Avoid):** Strong oxidizing agents.

**Hazardous Decomposition or By-products:** Carbon monoxide, carbon dioxide, aldehydes.

**Hazardous Polymerization:** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

PL-2

ORAL LD<sub>50</sub> (RAT) >5000 mg/kg  
DERMAL LD<sub>50</sub> (RABBIT) >6000 mg/kg  
SKIN IRRITATION (RABBIT) Mild irritation  
EYE IRRITATION (RABBIT) Not an irritant  
SENSITIZATION (GUINEA PIG) Skin sensitizer  
INHALATION LC<sub>50</sub> (RAT) >3466 mg/m<sup>3</sup>

Epichlorohydrin

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

**SECTION 12: DISPOSAL CONSIDERATIONS**

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

**SECTION 13: TRANSPORTATION INFORMATION**

**SHIPPING NAME**

**CLASS**

**UN NUMBER**

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.

<b>CAS NUMBER</b>	<b>CHEMICAL NAME</b>	<b>% BY WEIGHT</b>
106-89-8	Epichlorohydrin	2-3 ppm

**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.