



# MATERIAL SAFETY DATA SHEET



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: PL-6/PC-9

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	%
9057-91-4	Aromatic Diisocyanate Terminated Polyoxypropylene Glycol	>99.9
91-08-7	Toluene-2, 6-diisocyanate	<0.06
584-84-9	Toluene-2, 4-diisocyanate	<0.04

## SECTION 3: HEALTH HAZARD DATA

### Routes of Entry:

Inhalation: No    Skin: Yes    Ingestion: No

Health Hazards (Acute and Chronic): May cause dermatitis.

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

**Signs and Symptoms of Exposure:**

**INHALATION:** Should not be a route of entry under normal use and conditions. Excessive vapors caused by heat or spray mist can cause respiratory problems.

**EYE CONTACT:** May cause irritation.

**SKIN CONTACT:** May cause irritation and possible allergic sensitivity with repeated contact.

**INGESTION:** Should not be a route of entry during normal conditions of use.

**Conditions Generally Aggravated by Exposure:** None known.

**SECTION 4: EMERGENCY AND FIRST AID PROCEDURES**

**INHALATION:** Should any symptoms occur, remove to fresh air. Consult a physician if symptoms persist.

**EYE CONTACT:** Flush eyes with running water for 15 minutes. Seek medical attention if irritation develops.

**SKIN CONTACT:** Wash affected area immediately with soap and water. Remove contaminated clothing and wash thoroughly before reuse.

**INGESTION:** If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by medical personnel. Never give anything by mouth to an unconscious person.

**SECTION 5: FIRE AND EXPLOSION HAZARD DATA**

**Flash Point (Method Used):** >320°F (160°C)

**Flammable limits:** LEL: NA UEL: NA

**Extinguishing Media:** Water spray, dry chemical, carbon dioxide.

**Special Firefighting Procedures:** Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode. Move containers from fire area if it can be done safely. Use water to keep fire-exposed containers cool. Do not release runoff from fire control area to sewers or waterways.

**Unusual Fire and Explosion Hazards:** Avoid contact with strong oxidizers and strong acids. Sudden reaction may result in fire and toxic fumes.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Steps to be taken if material is released or spilled:** Provide adequate ventilation. Neutralize with decontamination solution. Absorb in sand and dispose of in an appropriate manner. Prevent product from entering sewers, streams or drinking water supplies.

**SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION**

**Respiratory Protection:** If needed, a NIOSH approved cartridge mask or self-contained breathing apparatus.

**Ventilation:** Exhaust ventilation recommended.

**Protective Gloves:** Impermeable gloves are required.

**Eye Protection:** Chemical splash goggles. Face shield should be worn for complete face protection.

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

**Work / Hygienic Practices:** Use with caution to avoid contact with skin or eyes. Wash hands with soap and water after use and before eating, drinking or smoking.

**SECTION 8: HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:** Store in a cool, dry, well ventilated area. Keep containers tightly closed when not in use. Avoid moisture exposure.

**Other Precautions:** Avoid contact with skin, eyes and clothing. Avoid breathing vapor over open container. Moderate irritant in prolonged contact.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<b>Boiling Point:</b>	>482°F (250°C)
<b>Vapor Pressure (mmHg):</b>	<1 at 70°F (21°C)
<b>Vapor Density (Air = 1):</b>	NA
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.05
<b>Melting Point:</b>	NA
<b>Evaporation Rate (BuAc = 1):</b>	NA
<b>Volatile Organic Compounds:</b>	None
<b>Solubility in Water:</b>	Reacts slightly with water

**Appearance and Odor:** Amber, viscous liquid; odorless.

**SECTION 10: STABILITY AND REACTIVITY DATA**

**Stability:** Stable at room temperature in closed containers under normal storage and handling conditions.

**Conditions to Avoid:** Moist contamination. Keep containers tightly closed when not in use.

**Incompatibility (Materials to Avoid):** Moisture, acids and amines. Avoid contact with strong oxidizers and strong acids as sudden reaction may result in fire and toxic fumes.

**Hazardous Decomposition or By-products:** None known.

**Hazardous Polymerization:** Will not occur.

**SECTION 11: TOXICOLOGICAL INFORMATION**

Aromatic Diisocyanate Terminated Polyoxypropylene Glycol

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

Toluene-2, 6-diisocyanate

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

Toluene-2, 4-diisocyanate

OSHA PEL: 0.005 ppm, 0.04 mg/m<sup>3</sup> 0.02 ppm, 0.15 mg/ m<sup>3</sup> STEL  
 ACGIH TLV: 0.005 ppm, 0.005 mg/m<sup>3</sup> 0.02 ppm, 0.14 mg/ m<sup>3</sup> STEL 0.02 mg/ m<sup>3</sup> CEILING  
 OTHER: Not established

**SECTION 12: DISPOSAL CONSIDERATIONS**

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

**SECTION 13: TRANSPORTATION INFORMATION**

SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Isocyanates Solution, Toxic, N.O.S (Aromatic Diisocyanate)	6.1	III	2206

**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
None		

**TSCA NOTIFICATION:**

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

<b>SECTION 15: OTHER INFORMATION</b>
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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.