



# MATERIAL SAFETY DATA SHEET



## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: PLD-700

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	%
872-50-4	N-Methylpyrrolidone	32-44
1330-20-7	Xylene	15-19
64-17-5	Ethanol	0.5-3.0

## SECTION 3: HEALTH HAZARD DATA

### Routes of Entry:

Inhalation: Yes      Skin: Yes      Ingestion: Unlikely

**Health Hazards (Acute and Chronic):** May cause allergic skin reaction. Contains ethanol which may cause birth defects or other adverse effects on pregnancy. Contains material which caused birth defects in laboratory animal tests. Risk of effects depends on duration and level of exposure.

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

**Signs and Symptoms of Exposure:**

**INHALATION:** Overexposure to vapor may cause respiratory tract irritation and central nervous system depression.

**EYE CONTACT:** Direct contact may cause moderate irritation.

**SKIN CONTACT:** Direct contact may cause moderate skin irritation.

**INGESTION:** Causes burning sensation in mouth and stomach, nausea, vomiting and salivation.

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

<b>SECTION 4: EMERGENCY AND FIRST AID PROCEDURES</b>
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**INHALATION:** Remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms.

**EYE CONTACT:** Rinse immediately with plenty of water for at least 15 minutes. Obtain medical advice if there are persistent symptoms.

**SKIN CONTACT:** Remove contaminated clothing and shoes without delay. Wash immediately with plenty of water. Do not reuse contaminated clothing without laundering. Get medical attention if pain or irritation persists after washing or if signs and symptoms of overexposure appear.

**INGESTION:** If swallowed, call a physician immediately. Only induce vomiting at the instructions of a physician. Never give anything by mouth to an unconscious person.

<b>SECTION 5: FIRE AND EXPLOSION HAZARD DATA</b>
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**Flash Point (Method Used):** Approximately 76° F (24° C) Closed Cup

**Flammable limits:** LEL: Not available UEL: Not available

**Extinguishing Media:** Use water spray, alcohol foam, carbon dioxide or dry chemical to extinguish fires. Water stream may be ineffective.

**Special Firefighting Procedures:** Wear self-contained, positive pressure breathing apparatus. Wear full firefighting protective clothing. Keep containers cool by spraying with water if exposed to fire.

**Unusual Fire and Explosion Hazards:** None known.

<b>SECTION 6: ACCIDENTAL RELEASE MEASURES</b>
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**Steps to be taken if material is released or spilled:** Remove sources of ignition. Cover spills with inert material. Sweep up spills and place in a waste disposal container. Flush area with water.

## SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

**Respiratory Protection:** Where exposures are below the Permissible Exposure Limit, no respiratory protection is required. If PEL is exceeded, use a NIOSH approved respirator.

**Ventilation:** Where material is not used in a closed system, good enclosure and local exhaust ventilation should be provided to control exposure when spraying or curing at elevated temperatures.

**Protective Gloves:** Impervious gloves are recommended to prevent skin contact.

**Eye Protection:** Wear chemical splash-proof goggles or faceshield.

**Other Protective Clothing or Equipment:** Wear apron or disposable coveralls as needed to prevent skin contact.

**Work / Hygienic Practices:** Avoid skin contact. Wash hands after using and before eating, drinking, or smoking. Eyewash equipment and safety shower should be provided.

## SECTION 8: HANDLING AND STORAGE

**Precautions to be taken in handling and storing:** Keep away from heat, sparks and flames. Avoid contact with eyes, skin and clothing. Keep container closed when not in use. Use with adequate ventilation. Wash thoroughly after handling.

**Other Precautions:** None.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<b>Boiling Point:</b>	302°F (150°C)
<b>Vapor Pressure (mmHg):</b>	7 mmHg @ 77°F (25°C)
<b>Vapor Density (Air = 1):</b>	2.2
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	1.7-2.1
<b>Melting Point:</b>	Not available
<b>Evaporation Rate (BuAc = 1):</b>	0.4
<b>Volatile Organic Compounds:</b>	5-35 gm/L
<b>Solubility in Water:</b>	Partial

**Appearance and Odor:** Brown viscous liquid; amine odor.

## SECTION 10: STABILITY AND REACTIVITY DATA

**Stability:** Stable.

**Conditions to Avoid:** Avoid exposure to heat.

**Incompatibility (Materials to Avoid):** Avoid strong oxidizing and reducing agents, strong alkalies.

**Hazardous Decomposition or By-products:** Thermal decomposition or combustion may produce carbon monoxide carbon dioxide, ammonia, ethanol and/or oxides of nitrogen.

**Hazardous Polymerization:** May occur.

<b>SECTION 11: TOXICOLOGICAL INFORMATION</b>
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N-Methylpyrrolidone

OSHA PEL:	Not established
ACGIH TLV:	Not established
OTHER:	None known

Xylene

OSHA PEL:	100 ppm
ACGIH TLV:	100 ppm (150 ppm STEL)
OTHER:	None known

Ethanol

OSHA PEL:	1000 ppm
ACGIH TLV:	1000 ppm
OTHER:	None known

<b>SECTION 12: DISPOSAL CONSIDERATIONS</b>
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**Waste Disposal Method:** Dispose of in accordance with local, state, and federal environmental regulations.

<b>SECTION 13: TRANSPORTATION INFORMATION</b>
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SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Adhesives (Xylene, Ethanol, N-Methylpyrrolidone)		3	II 1133

**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
872-50-4	N-Methylpyrrolidone	32-44
1330-20-7	Xylene	15-19

**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.