



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: P Adhesive

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	%
872-50-4	N-Methylpyrrolidone	62
1330-20-7	Xylene	19
100-41-4	Ethyl Benzene	4
71-43-2	Benzene	Approx. 1 ppm
N/A	Solids	Approx. 15

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Yes Skin: Yes Ingestion: Accidental

Health Hazards (Acute and Chronic): Causes skin burns. Causes eye and respiratory tract irritation.

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

: P Adhesive MSDS (Continued)

Signs and Symptoms of Exposure:

INHALATION: May cause respiratory tract irritation. Excessive exposure may result in headache, dizziness, incoordination, nausea, loss of appetite and loss of consciousness.

EYE CONTACT: May cause severe eye irritation.

SKIN CONTACT: May cause skin burns.

INGESTION: May cause irritation and burns to mouth and digestive tract.

Conditions Generally Aggravated by Exposure: None listed.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes.

SKIN CONTACT: Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes. Get medical attention.

NOTE: Skin absorption may add to the overall exposure.

INGESTION: Call physician or poison control center.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 80-100°F (27-38° C) Pensky-Martens, Closed Cup

Flammable limits: LEL: Not known UEL: Not known

Extinguishing Media: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.

Special Firefighting Procedures: Fire fighters and others who may be exposed to products of combustion should wear full protective clothing including self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.

Unusual Fire and Explosion Hazards: Closed containers exposed to heat may build up pressure. Use water spray to keep exposed containers and equipment cool.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Remove any source of sparks, flame or hot surfaces. Insure adequate ventilation. Absorb with commercial absorbing materials and dispose of as a hazardous waste. Flush area with water. Keep out of sewers, watersheds, and water systems.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Avoid breathing vapor and/or mist. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposure limits are exceeded. Consult respirator manufacturer to determine appropriate type equipment for given application. Observe respirator use limitations specified by NIOSH/MSHA or the manufacturer. Respiratory Protection Programs must comply with 29 CFR 1910.134.

Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits. If practical, use local mechanical exhaust ventilation at sources of air contamination such as open process equipment.

Protective Gloves: Wear appropriate chemical resistant gloves to prevent skin contact.

Eye Protection: Wear chemical safety goggles, and a face shield when splashing is likely.

Other Protective Clothing or Equipment: Wear chemical resistant clothing to prevent skin contact. Wear a chemical resistant apron when splashing is likely.

Work / Hygienic Practices: Wash immediately if skin is contaminated. Remove contaminated clothing promptly and launder before reuse. Clean protective equipment before reuse. Provide a safety shower at any location where skin contact can occur. Wash thoroughly after handling and before eating, drinking or smoking.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Do not get into eyes, on skin, or on clothing. Avoid breathing vapors or mists. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions: Container hazardous when empty. Emptied containers retain vapor and product residue. Follow labeled warnings even after container is emptied. Residual vapors may explode on ignition. Do not cut, drill, grind or weld on or near container.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not known
Vapor Pressure (mmHg):	10
Vapor Density (Air = 1):	3.66
Specific Gravity (H ₂ O = 1):	1.05-1.08
Melting Point:	Not known
Evaporation Rate (BuAc = 1):	Not known
Volatile Organic Compounds:	23%
Solubility in Water:	Negligible

Appearance and Odor: Clear amber semi-viscous liquid with amine-like odor.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under normal conditions of use and storage.

Conditions to Avoid: Do not expose to heat or ignition sources. Volatiles given off during cure – ethanol, n-methylpyrrolidone, xylene.

Incompatibility (Materials to Avoid): Strong oxidizing agents, strong alkali.

Hazardous Decomposition or By-products: Carbon monoxide, nitrogenous products.

Hazardous Polymerization: Does not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

N-Methylpyrrolidone

OSHA PEL:	None established
ACGIH TLV:	None established
OTHER:	2 ppm (8 mg/m ³ Skin 8 hour)

Xylene

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

Ethylbenzene

OSHA PEL:	100 ppm (125 ppm STEL)
ACGIH TLV:	100 ppm (125 ppm STEL)
OTHER:	None established

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	PACKING GROUP	UN NUMBER
Adhesives (N-Methylpyrrolidone, Xylene)	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	62
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100-41-4	Ethyl Benzene	4

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.