



MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: H-Cement Thinner

November 28, 2005

Vishay Micro-Measurements
Post Office Box 27777
Raleigh, NC 27611

MSDS # MGM065A

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	%
7664-38-2	Acidic Phosphates (Phosphoric Acid)	15-24
1333-82-0	Water Soluble Chromium VI Compounds	<5
1308-14-1	Chromium III Compounds	<2

Balance of product is non-hazardous.

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Yes **Skin:** Yes **Ingestion:** Accidental

Health Hazards (Acute and Chronic): May cause cancer by inhalation of atomized coating. Harmful if swallowed. Corrosive liquid. Irritating to eyes and respiratory system.

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

Signs and Symptoms of Exposure:

INHALATION: This product contains chromium VI compounds which are considered to be carcinogenic by inhalation. May cause respiratory irritation.

EYE CONTACT: May cause severe irritation.

SKIN CONTACT: Prolonged skin contact may cause burns.

INGESTION: May be harmful if swallowed.

Conditions Generally Aggravated by Exposure: None known.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove victim to fresh air. Obtain medical attention.

EYE CONTACT: Flush with water for 15 minutes. Get medical attention.

SKIN CONTACT: Immediately flush skin with water, remove contaminated clothing and wash before reuse. Severe skin contact may require medical attention.

INGESTION: If victim is conscious give large amounts of water followed by milk of magnesia. Obtain medical attention.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): None. Will not burn or support combustion.

Flammable limits: LEL: NA UEL: NA

Extinguishing Media: Carbon dioxide, sand, dry chemical.

Special Firefighting Procedures: Wear appropriate protective equipment including self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Thermal decomposition may yield phosphoric oxide.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Absorb on to sand or vermiculite, then scoop up for disposal. Rinse spill area with water.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Do not breathe spray. Use a positive pressure supplied air respirator for spray application. For non-spray applications wear NIOSH/MSHA approved respirator to control exposure.

Ventilation: Mix and apply product with adequate ventilation.

Protective Gloves: Wear acid resistant rubber or plastic gloves.

Eye Protection: Wear appropriate goggles.

Other Protective Clothing or Equipment: Wear suitable protective clothing as needed.

Work / Hygienic Practices: Use good industrial hygiene practices. Wash hands after using and before eating, drinking or smoking.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Use with adequate ventilation. Do not get on skin or clothing. Store inside in original containers. Storage temperature should be 40°F to 90°F (4°C to 32°C).

Other Precautions: None known.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	≈ 220°F (104°C)
Vapor Pressure (mmHg):	23.7
Vapor Density (Air = 1):	0.7
Specific Gravity (H₂O = 1):	1.28
Melting Point:	Not known
Evaporation Rate (BuAc = 1):	1
Volatile Organic Compounds:	None
Solubility in Water:	Miscible

Appearance and Odor: Yellow-red odorless liquid.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: None listed.

Incompatibility (Materials to Avoid): Alkalis and strong oxidizing or reducing agents.

Hazardous Decomposition or By-products: Direct contact with alkalis may produce hydrogen gas.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Acidic Phosphates (Phosphoric Acid)

OSHA PEL:	0.1 mg/m ³
ACGIH TLV:	0.1 mg/m ³
OTHER:	NA

Water Soluble Chromium VI Compounds

OSHA PEL:	0.1 mg/m ³
ACGIH TLV:	0.5 mg/m ³ as Chromium
OTHER:	NA

Chromium III Compounds

OSHA PEL:	0.5 mg/m ³
ACGIH TLV:	0.5 mg/m ³
OTHER:	NA

SECTION 12: DISPOSAL CONSIDERATIONS
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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
Corrosive Liquid, N.O.S. (Phosphoric Acid)	8	III	1760

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
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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. Vishay Micro-Measurements specifically disclaims any and all form of liability and/or responsibility for the application of this product.