



# MATERIAL SAFETY DATA SHEET

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT:** M-Coat C

November 29, 2005

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

**MSDS #** MGM023K

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	%
64742-89-8	VM & P Naphtha	10.0
1330-20-7	Xylene	25.0
Not established	3140 RTV Coating	65.0

**NOTE:** 3140 RTV Coating contains the following:

68909-20-6	Trimethylated Silica	15-40
1185-55-3	Methyltrimethoxysilane	5-10
70131-67-8	Dimethyl Siloxane, Hydroxy-Terminated	>60.0

NOTE: Methyl alcohol forms on contact with water or humid air.

## SECTION 3: HEALTH HAZARD DATA

**Routes of Entry:**

**Inhalation:** YES **Skin:** Accidental **Ingestion:** Accidental

**Health Hazards (Acute and Chronic):** Chronic over-exposure may include kidney and/or liver damage. Acute overexposure may cause respiratory distress to unconsciousness when TLV is exceeded. Product generates methyl alcohol which may cause blindness and damage to the nervous system.

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

NOTE: When heated to temperatures above 355°F (180°C) in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

### **Signs and Symptoms of Exposure:**

**INHALATION:** May cause nose or throat irritation. High concentrations may cause acute central nervous system depression characterized by headaches, dizziness, nausea and confusion. Product generates methyl alcohol which may cause blindness and damage to nervous system.

**EYE CONTACT:** May cause irritation, redness, swelling, tearing and blurred vision.

**SKIN CONTACT:** May cause defatting and irritation of the skin. Prolonged contact can cause irritation, defatting, and dermatitis.

**INGESTION:** Can cause gastrointestinal irritation, nausea and vomiting. Aspiration of material into lungs can cause chemical pneumonitis which can be fatal. Product generates methyl alcohol which may cause blindness and possibly death if swallowed.

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

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

**INHALATION:** Remove to fresh air immediately. If breathing is difficult administer oxygen. If breathing has stopped, give artificial respiration. Get medical attention immediately.

**EYE CONTACT:** Flush with large amounts of water for at least 15 minutes while holding eyelids open. Seek medical aid.

**SKIN CONTACT:** Thoroughly wash exposed area with soap and water. Launder contaminated clothing before re-use.

**INGESTION:** Do NOT induce vomiting. Seek medical aid.

NOTE: Treat as methyl alcohol poisoning.

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

**Flash Point (Method Used):** 40°F (4.4°C) TCC

**Flammable limits:** LEL: 0.9 UEL: 6.0

**Extinguishing Media:** Carbon dioxide, dry chemical, water fog.

**Special Firefighting Procedures:** Firefighters should wear proper protective clothing and use self-contained breathing apparatus. Use water to keep fire exposed containers cool.

**Unusual Fire and Explosion Hazards:** Vapor is flammable and heavier than air, and may travel to ignition source and flash back. Sealed containers exposed to high heat may explode.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**Steps to be taken if material is released or spilled:** Remove sources of ignition. Contain spill and pick up with absorbent material to remove any oil-like residue.

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

**Respiratory Protection:** For air contaminants above TLV or permissible limits, use NIOSH approved respirator for organic vapors. In an emergency, use self-contained breathing apparatus.

**Ventilation:**

**Local Exhaust:** Keep below TLV

**Mechanical:** Keep below TLV

**Special:** N/A

**Other:** N/A

**Protective Gloves:** Neoprene gloves are recommended.

**Eye Protection:** Chemical splash goggles are recommended.

**Other Protective Clothing or Equipment:** Neoprene over-clothing as needed. Safety shower and eyewash station should be available in local area.

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

**SECTION 8: HANDLING AND STORAGE**

**Precautions to be taken in handling and storing:** Store below 80°F (27°C) in dry, well-ventilated area.

**Other Precautions:** Wash thoroughly after using.

<b>SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES</b>
--

<b>Boiling Point:</b>	225°F (107°C)
<b>Vapor Pressure (mmHg):</b>	25 @ 68°F (20°C)
<b>Vapor Density (Air = 1):</b>	3.7
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.85
<b>Melting Point:</b>	N/A
<b>Evaporation Rate (BuAc = 1):</b>	0.6
<b>Volatile Organic Compounds:</b>	300 g/liter
<b>Solubility in Water:</b>	Negligible

**Appearance and Odor:** Milky translucent liquid; naphthalene odor.

<b>SECTION 10: STABILITY AND REACTIVITY DATA</b>
--

**Stability:** Stable.

**Conditions to Avoid:** Sources of ignition.

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

**Hazardous Decomposition or By-products:** Oxides of carbon and silicon and incompletely burned hydrocarbon products.

**Hazardous Polymerization:** Will not occur.

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

VM & P Naphtha

OSHA PEL:	300 ppm TWA
ACGIH TLV:	300 ppm
OTHER:	N/E

Xylene

OSHA PEL:	100 ppm TWA
ACGIH TLV:	100 ppm
OTHER:	150 ppm STEL
	LD <sub>50</sub> ORAL (RAT) 4300 mg/kg
	LC <sub>50</sub> INHAL (RAT-4H) 5000 mg/kg
	LD <sub>50</sub> IPR (MOUSE) 1.6 mg/kg
	LD <sub>50</sub> SCU (RAT) 1700 mg/kg

## 3140 RTV Coating

OSHA PEL: N/E  
 ACGIH TLV: N/E  
 OTHER: 5 mg/m<sup>3</sup> Ceiling (as dust) Recommended by Dow Corning  
 50 ppm TWA Recommended by Dow Corning

<b>SECTION 12: DISPOSAL CONSIDERATIONS</b>
--

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

<b>SECTION 13: TRANSPORTATION INFORMATION</b>
---

SHIPPING NAME	CLASS	PACKING GROUP	UN NUMBER
Flammable Liquids, N.O.S. (Xylenes / Naphtha)	3	II	1993

<b>SECTION 14: REGULATORY INFORMATION</b>
---

**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
1330-20-7	Xylene	25.0

**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>
--------------------------------------

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.