



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: M-Coat W-1

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	%
63231-60-7	Micro Crystalline Wax	100

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

Inhalation: Possible Skin: No Ingestion: Accidental

Health Hazards (Acute and Chronic): In rats, chronic ingestion has shown accumulation in target organs (liver, spleen) with associated non-specific immune response.

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

Signs and Symptoms of Exposure:

INHALATION: Exposure to vapors, fumes or smoke from molten material handled in confined areas can produce irritation of respiratory tracts and possible physical discomfort to sensitive individuals.

EYE CONTACT: Exposure to fumes, vapors or smoke from thermally degraded product can cause irritation to eyes. Direct contact of the molten material will cause eye injury and burns.

M-Coat W-1 MSDS (Continued)

SKIN CONTACT: Skin contact with molten material can cause severe burns.

INGESTION: This material is essentially inert and non-toxic. Regardless of this the material should be handled with care and not be ingested or put in mouth.

Conditions Generally Aggravated by Exposure: None known.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: Remove individual to a well ventilated area for fresh air and call a physician if respiratory symptoms warrant medical attention.

EYE CONTACT: Should an accident occur, flush eyes with generous amounts of water for at least 15 minutes. Administer prompt first aid measures. Call a physician to attend to the injury.

SKIN CONTACT: For burns, apply running water to injured area for 15 minutes. Do not attempt to remove any material bonded to skin. Call a physician to attend to the injury.

INGESTION: If material is ingested, do NOT induce vomiting. Call a physician.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): >390°F (200°C) ASTM D-92

Flammable limits: LEL: 09 UEL: 7.0

Extinguishing Media: Carbon dioxide, foam, dry chemical, water fog. Do not use direct water stream.

Special Firefighting Procedures: Water or foam may cause frothing. Use water to keep fire exposed containers cool. For fires in enclosed areas, firefighters must use self-contained breathing apparatus.

Unusual Fire and Explosion Hazards: Will support a flame above flash point. At elevated temperatures well above the softening point and in contact with air, the generation of hydrocarbon vapors including possible oxidized products may be expected.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Handle as a thermoplastic. With molten spills, allow the material to solidify and cool. Keep material out of sewers and water courses by diking or impounding. Recover and place into appropriate containers for recycling or disposal, according to prevailing local, state and federal laws.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: When working in confined areas, use of appropriate respiratory gear is recommended.

Ventilation: Use local exhaust above heating operations.

Protective Gloves: Gloves as required to handle hot materials if needed.

Eye Protection: Normal industrial eye protection practices should be used. Generally, eye contact with solid material is unlikely, however, when handling in liquid form, chemical type goggles and faceshield should be worn.

Other Protective Clothing or Equipment: As needed to prevent contact with heated material.

Work / Hygienic Practices: Wash thoroughly after using. Good personal hygiene practices should always be followed.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: When kept in molten state, inert gas blanketing may be used to avoid material degradation. As a solid avoid contamination by keeping in closed containers.

Other Precautions: None.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	>600°F (316°C)
Vapor Pressure (mmHg):	<0.01 @ 77°F (25°C)
Vapor Density, (Air = 1):	>5
Specific Gravity:	0.91-0.94
Melting Point:	140-203°F (60-95°C)
Evaporation Rate (BuAc = 1):	<0.01
Volatile Organic Compounds:	<1.0%
Solubility in Water:	Negligible

Appearance and Odor: White to amber wax with mild petroleum odor.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable.

Conditions to Avoid: Temperatures above melting point.

Incompatibility (Materials to Avoid): Strong oxidizers (peroxide, chlorine).

Hazardous Decomposition or By-products: Carbon dioxide, carbon monoxide and other products such as aldehydes and ketones depending on conditions of oxidation.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Micro Crystalline Wax

OSHA PEL:	2.0 mg/m ³ (fume)*
ACGIH TLV:	2.0 mg/m ³ (fume)*
OTHER:	

*NOTE: This product may be used in certain applications where temperatures may lead to generation of wax fumes. According to OSHA, paraffin wax fume may be considered to be hazardous if the workplace airborne concentration exceeds 2 mg/m³.

SECTION 12: DISPOSAL CONSIDERATIONS
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Waste Disposal Method: Material is not considered harmful to the environment. Nevertheless, material from spills and other generated waste must be disposed of properly in conformance with all local, state and federal laws. This material is not a RCRA hazardous waste material. Follow local regulatory laws for proper disposal.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME	CLASS	UN NUMBER
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Not regulated when shipped as a solid material below the temperature of 212°F (100°C).

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 listed.		

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.