



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: M-Coat J Resin

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	%
68611-50-7	Liquid Polysulfide Polymer with Thiol End Groups	60-90
471-34-1	Calcium Carbonate	10-30
67762-90-7	Amorphous Fumed Silica	<5.0
25036-25-3	Bisphenol A/Epichlorohydrin Based Epoxy Resin	<5.0
28470-78-2	Formaldehyde Polymer with 3-Chloro-1-Propene & Phenol	<5.0
108-88-3	Toluene	<5.0

SECTION 3: HEALTH HAZARD DATA

Routes of Entry:

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

Health Hazards (Acute and Chronic): Repeated overexposure may cause headaches, dizziness, drowsiness, unconsciousness and central nervous system effects.

M-Coat J Resin MSDS (Continued)

Carcinogenicity: NTP: No
IARC Monographs: No
OSHA Regulated: No

Signs and Symptoms of Exposure:

INHALATION: Vapor or fume will irritate the nose and throat.

EYE CONTACT: Vapor or fume can irritate the eyes.

SKIN CONTACT: Substance can cause moderate irritation.

INGESTION: Ingestion can cause irritation of gastro-intestinal tract.

Conditions Generally Aggravated by Exposure: None known.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES

INHALATION: If inhaled, remove from area to fresh air. If not breathing, give artificial respiration. Get immediate medical attention. If breathing is difficult, transport to medical facility and, if available, give supplemental oxygen.

EYE CONTACT: For eye contact, immediately flush eyes for at least 15 minutes with running water. Hold eyelids apart to ensure rinsing of the entire eye surface and lids with water. Get immediate medical attention.

SKIN CONTACT: For skin contact, wipe excess material with dry towel. Then wash exposed areas with plenty of water, and soap if available, for several minutes. Get medical attention if irritation occurs.

INGESTION: If swallowed, dilute by giving two glasses of water to drink. Get immediate medical attention. Never give anything by mouth to an unconscious person.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used): 158°F (69.99°C) PMCC

Flammable limits: LEL: Not known UEL: Not known

Extinguishing Media: Carbon dioxide, dry chemical, or foam.

Special Firefighting Procedures: Water spray may be ineffective. Cool fire exposed containers with water. Fog nozzles are preferred. Wear NIOSH/MSHA approved self-contained breathing apparatus and complete protective clothing to prevent contact with skin and eyes.

Unusual Fire and Explosion Hazards: Decomposition and combustion products may be hazardous. High temperature may cause pressure to build up in closed container. Vapors may accumulate in inadequately ventilated or confined areas. Vapors may form an explosive mixture with air. Vapors are heavier than air and may travel long distances. Flashback or flame to the handling site may occur. Closed containers may explode when exposed to extreme heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Cover with absorbent material if necessary. Scoop into containers. Clean up residue with a suitable cleaning solvent. Wear appropriate personal protective equipment.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: Not normally required.

Ventilation: Good general mechanical ventilation.

Protective Gloves: Chemically resistant gloves are recommended.

Eye Protection: Safety glasses are recommended.

Other Protective Clothing or Equipment: When using in circumstances where skin contact is likely use complete protective garments.

Work / Hygienic Practices: Wash thoroughly after handling and before eating, drinking or smoking. Avoid ingestion. Safety shower, eye wash station, and washing facilities should be available.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Keep container tightly closed. Store in a dry location. Wear proper personal protective equipment.

Other Precautions: Wash thoroughly after handling and before eating, drinking or smoking.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	N/A
Vapor Pressure (mmHg):	Not known
Vapor Density (Air = 1):	>1
Specific Gravity (H₂O = 1):	1.381
Melting Point:	Not known
Evaporation Rate (BuAc = 1):	<1
Volatile Organic Compounds:	3.4%(104 gram/liter when combined with curing agent)

Solubility in Water: Negligible.

Appearance and Odor: Brown thixotropic paste.

SECTION 10: STABILITY AND REACTIVITY DATA
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Stability: Stable.

Conditions to Avoid: Not known.

Incompatibility (Materials to Avoid): Strong oxidizing agents.

Hazardous Decomposition or By-products: Oxides of carbon and nitrogen, sulfur dioxide, traces of hydrogen sulfide.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION
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Liquid Polysulfide Polymer with Thiol End Groups

OSHA PEL:	N/E
ACGIH TLV:	N/E
OTHER:	LD ₅₀ ORAL (Rat) 5000 mg/kg

Calcium Carbonate

OSHA PEL:	15.0 ppm
ACGIH TLV:	10.0 ppm
OTHER:	LD ₅₀ ORAL (Rat) 2000 mg/kg

Amorphous Fumed Silica

OSHA PEL:	N/E
ACGIH TLV:	10 mg/m ³
OTHER:	LD ₅₀ ORAL (Rat) 5000 mg/kg LC ₅₀ INHALATION (Rat) 4.9 mg/L – 4 Hr.

Bisphenol A/Epichlorohydrin Based Epoxy Resin

OSHA PEL:	15 mg/m ³
ACGIH TLV:	10 mg/m ³
OTHER:	LD ₅₀ ORAL (Rat) 3000 mg/kg LC ₅₀ INHALATION (Rat) 800 mg/m ³ – 4 Hr.

Formaldehyde Polymer with 3-Chloro-1-Propene & Phenol

OSHA PEL:	N/E
ACGIH TLV:	N/E
OTHER:	N/E

Toluene

M-Coat J Resin MSDS (Continued)

OSHA PEL: 100 ppm
ACGIH TLV: 50 ppm
OTHER: LD₅₀ ORAL (Rat) 2600 mg/kg
LC₅₀ INHALATION (Rat) 8800 ppm – 4 Hr.

SECTION 12: DISPOSAL CONSIDERATIONS

Waste Disposal Method: When disposing of this material, ensure that it is packaged, stored, transported and otherwise handled in accordance with local, state, and federal regulations.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME	CLASS	UN NUMBER
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Not Required -- Non-hazardous for transportation.

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
108-88-3	Toluene	<5.0

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.