



MATERIAL SAFETY DATA SHEET



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT: Releasing Agent

May 15, 2013

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	%
63148-62-9	Dimethylpolysiloxane Fluid	97-100

WARNING STATEMENTS: This product, as sold, does not meet the regulatory definition of a hazardous material. This product contains dimethylpolysiloxane which can generate formaldehyde as a byproduct of oxidative thermal decomposition beginning at approximately 300°F (150°C). Exposure to formaldehyde can cause adverse effects such as skin and respiratory sensitization and eye and throat irritation. Formaldehyde is a potential cancer hazard. Evaluate and control exposure to formaldehyde when warranted by conditions of use.

SECTION 3: HEALTH HAZARD DATA

Routes of Entry: **Inhalation:** Not likely **Skin:** Not likely **Ingestion:** Not likely

Health Hazards (Acute and Chronic): This product does not contain any ingredient designated by IARC, NTP, ACGIH, or OSHA as probable or suspected human carcinogens.

Carcinogenicity:

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

NOTE: Under certain conditions, this product may generate formaldehyde as a byproduct of oxidative thermal decomposition. Formaldehyde is listed as a potential human carcinogen by IARC, OSHA and ACGIH.

Releasing Agent MSDS (Continued)

Signs and Symptoms of Exposure:

INHALATION: Inhalation not likely.

EYE CONTACT: Slightly irritating. May cause redness, irritation.

SKIN CONTACT: Non-irritating. Low acute dermal toxicity.

INGESTION: Low acute oral toxicity.

Conditions Generally Aggravated by Exposure: No specific information found.

SECTION 4: EMERGENCY AND FIRST AID PROCEDURES
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INHALATION: Inhalation is not an expected route of exposure. If respiratory irritation or distress occurs remove victim to fresh air. Seek medical attention if respiratory irritation or distress continues.

EYE CONTACT: In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

SKIN CONTACT: Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.

INGESTION: If victim is conscious and alert, give 1-2 glasses of water to drink. Do not give anything by mouth to an unconscious person. Seek medical attention. Do not leave victim unattended.

NOTES TO PHYSICIAN: All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred. Treat symptomatically. No specific antidote available.

SECTION 5: FIRE AND EXPLOSION HAZARD DATA
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Flash Point (Method Used): 570°F (299°C) Tag Closed Cup

Flammable limits: LEL: No Data UEL: No Data

Extinguishing Media: Dry chemical, foam, or carbon dioxide are recommended.

Special Firefighting Procedures: Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Cool containers exposed to fire with water.

Unusual Fire and Explosion Hazards: Product will burn under fire conditions. May emit formaldehyde, oxides of carbon, and/or silica under fire conditions.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Wear appropriate protective gear for the situation. Absorb with an inert absorbent. Scrape up and place in appropriate closed container. Clean up residual material with an appropriate solvent like paint thinner or mineral spirits, provided that there is good ventilation and no sources of ignition. Do not flush to drain. Spilled material may make the floor slippery. Do not leave traces of product on floors, ladders, etc., as this may present a slipping hazard.

SECTION 7: EXPOSURE CONTROLS -- PERSONAL PROTECTION

Respiratory Protection: When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations. For reasonably foreseeable industrial end uses of this material, respiratory protection should not be necessary.

Ventilation: Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: general area dilution/exhaust ventilation.

Protective Gloves: Skin contact should be minimized through use of gloves and suitable long-sleeved clothing (i.e., shirts and pants). Consideration must be given both to durability as well as permeation resistance.

Eye Protection: Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material. It is generally regarded as good practice to wear a minimum of safety glasses with sideshields when working in industrial environments.

Work / Hygienic Practices: Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this material:

- Do not store, use, or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- Wash exposed skin promptly to remove accidental splashes or contact with this material.

SECTION 8: HANDLING AND STORAGE

Precautions to be taken in handling and storing: Store in tightly closed containers. Store in an area that is clean, dry, and well ventilated. Maximum storage temperature should be <109°F (<43°C).

Other Precautions: Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point:	Not available
Vapor Pressure (mmHg):	<0.1 mmHg at 68°F (20°C)
Vapor Density (Air = 1):	Not available
Specific Gravity (H₂O = 1):	0.96 at 77°F (25°C)
Melting Point:	NA
Evaporation Rate (BuAc = 1):	Not known
Volatile Organic Compounds:	Not known
Solubility in Water:	Insoluble

Appearance and Odor: Clear viscous liquid, odorless.

SECTION 10: STABILITY AND REACTIVITY DATA

Stability: Stable under normal handling and storage conditions.

Conditions to Avoid: Heat, open flame, spark, static electricity.

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

Hazardous Decomposition or By-products: Formaldehyde, dimethylcyclosiloxanes, methylphenylcyclosiloxanes.

Hazardous Polymerization: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

Dimethylpolysiloxanes

OSHA PEL:	Not established
ACGIH TLV:	Not established
OTHER:	ACUTE ORAL TOXICITY LD _{Lo} >5000 mg/kg rat

NOTE: Check exposure limit guidelines for formaldehyde, a byproduct of oxidative, thermal decomposition of dimethylsiloxane, if this product is heated above 300°F (150°C).

SECTION 12: DISPOSAL CONSIDERATIONS

Waste Disposal Method: Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material. Any containers or equipment used should be decontaminated immediately after use.

SECTION 13: TRANSPORTATION INFORMATION

SHIPPING NAME	CLASS	UN NUMBER
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Not regulated when shipped alone.

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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None

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.