



## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Product Name:** MS-3200MD, MS-3210MD, MS-3220MD, MS-3230MD, MS-3240MD, MS-3250MD, MS-3260MD, MS-3270MD

**Product Meets:** ISO 10993 Biocompatibility testing

### **MANUFACTURER/DISTRIBUTOR:**

Miller-Stephenson Chemical  
55 Backus Ave,  
Danbury, Conn. 06810 USA  
(203) 743-4447

### **Emergency Phone Number:**

**(800) 424-9300**

## 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture:** Not classified as a hazardous substance or mixture according to 29 CFR 1910.1200.

### **Label elements:**

**Hazard Symbol:** None

**Signal word:** None

**Hazard Statements:** None

### **Other hazards:**

The thermal decomposition vapors of fluorinated plastics may cause polymer fume fever with flu-like symptoms in humans, especially when smoking contaminated tobacco.

## 3. INGREDIENTS

No hazardous ingredients

## 4. FIRST AID MEASURES

**Inhalation:** Remove patient to fresh air. Get medical attention if necessary.

**Eye:** In case of contact, flush eyes with water. Get medical attention if irritation develops and persists.

**Skin:** Wash skin with water and soap after contact. Get medical attention if symptoms occur.

**Oral:** If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.

**Most important symptoms and effects, both acute and delayed:**

Inhalation may provoke the following symptoms: Irritation, Lung edema

Skin contact may provoke the following symptoms: Redness, Irritation

Eye contact may provoke the following symptoms: Blurred vision, Discomfort, Lachrymation

**Note to Physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Does not flash

**Method:** Pensky-Martens Close Cup

**Upper explosion limit:** No data available.

**Lower explosion limit:** No data available.

**Decomposition Temperature:** 300°C/572°F

**Suitable Extinguishing Media:** No applicable. Will not burn.

**Unsuitable extinguishing media:** No applicable. Will not burn.

**Specific hazards during fire-fighting:** Exposure to combustion products may be a hazard to health.

**Hazardous combustion products:** Hydrogen fluoride, Carbonyl fluoride, Carbon oxides, Potentially toxic fluorinated compounds.

**Special Fire Fighting Instruction:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate personnel to safe area. Wear self-contained breathing apparatus (SCBA) if necessary. Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**Environmental precautions:** Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillage cannot be contained.

**Methods and materials for containment and clean up:** Soak up with inert absorbent material.

Store recovered material in appropriate container. Local or national regulations may apply to releases and disposal of this material, as well as those materials used in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

## 7. HANDLING AND STORAGE

**Handling:** See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. Take care to prevent spills, waste and minimize release to the environment.

**Storage Conditions:** No special storage conditions required. Keep container closed to prevent contamination. Store in accordance with the national regulations. No decomposition if stored and applied as directed.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** In the event that the lubricant is heated above 300°C/572°F, local ventilation should be used to avoid exposure to fumes.

**Respiratory Protection:** General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

**Eye Protection:** Avoid eye contact. Use chemical goggles or safety glasses with side shields.

**Skin Protection:** Wash skin after contact.

**Hygiene measures:** Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes, or clothing. Wash exposed areas thoroughly after contact.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Specific gravity:</b>	1.89 – 1.93 at 24°C/75°F
<b>Appearance/Physical State:</b>	Solid
<b>Form:</b>	Grease
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>pH:</b>	7
<b>Melting point/freezing point:</b>	608°F/320°C
<b>Boiling point/boiling range:</b>	No data available
<b>Evaporation rate:</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Vapor density:</b>	Not applicable
<b>Water solubility:</b>	Insoluble
<b>Partition coefficient: n-Octanol/water:</b>	Not applicable
<b>Auto-ignition temperature:</b>	No data available
<b>Decomposition temperature:</b>	572°F/300°C
<b>Viscosity:</b>	Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** Not classified as a reactivity hazard.

**Chemical Stability:** Stable under normal conditions.

**Possibility of hazardous Reactions:** Hazardous decomposition products will be formed at elevated temperatures.

**Conditions to avoid:** None known.

**Incompatible Materials:** None.

**Hazardous decomposition Products:** Hydrofluoric acid, Carbonyl difluoride, Carbon dioxide, Carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

Not classified based on available information.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods-Product:** In accordance with local and national regulations.

**Contaminated packaging:** Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.

## 14. TRANSPORT INFORMATION

Not regulated as a dangerous good by DOT, IATA and IMDG.

## 15. REGULATORY INFORMATION

### U.S. Federal Regulations

**TSCA:** On the inventory, or in compliance with the inventory.

### U.S. State Regulations

#### California Proposition 65:

WARNING: This product can expose you to chemicals including pentadecafluorooctanoic acid, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). Note to User: This product is not made with PFOA nor is PFOA intentionally present in the product; however, it is possible that PFOA may be present as an impurity at background (environmental) levels.

## **16. OTHER INFORMATION**

**Restrictions for use:** Do not use Miller-Stephenson materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless the material has been provided under a written contract that is consistent with our policy regarding medical applications and expressly acknowledges the contemplated use. For further information, please contact your Miller-Stephenson representative.

### **REVISION DATE: NOVEMBER 2019**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user.