## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Product Name:** **MilLube™ MS-3100MD, MS-3110MD, MS-3120MD, MS-3130MD, MS-3140MD, MS-3150MD, MS-3160MD, MS-3170MD**

**Product Use:** Lubricant, For Industrial Use Only

**Restrictions on use:** Do not use product for anything outside the above specified uses.

**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 Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

**Label elements:**

**Hazard Symbol:** None
**Signal word:** None
**Hazard Statements:** None

**Other hazards:**
The product as such is not hazardous. Inhalation of decomposition products from overheating may cause lung irritation or shortness of breath.

## 3. INGREDIENTS

This product does not contain any components that require disclosure according to OSHA Hazard Communication Standard 2012.

## 4. FIRST AID MEASURES

**General Advice:** When symptoms persist or in all cases of doubt seek medical advice.

**Inhalation:** Remove patient to fresh air in case of accidental inhalation of fumes from overheating or combustion. Oxygen or artificial respiration if needed.

**Eye:** Rinse with plenty of water. If eye irritation persists, consult a specialist.

**Skin:** Wash skin with soap and water as a precaution.

**Oral:** If swallowed, DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** No applicable data available.

**Note to Physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Does not flash **Method:** Pensky-Martens Close Cup

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

**Decomposition Temperature:** 350ºC

**Suitable Extinguishing Media:** The product itself does not burn. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
**Unsuitable extinguishing media:** No applicable data available.

**Special hazards:** In fire conditions, toxic decomposition products may be formed. (See also section 10)

**Special Fire Fighting Instruction:** Wear self-contained breathing apparatus (SCBA). Wear suitable protective equipment.

**Further information:** Standard procedure for chemical fires.

## 6. ACCIDENTAL RELEASE MEASURES

NOTE: Review FIRE FIGHTING MEASURES AND HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

**Safeguards (Personnel):** Avoid contact with the skin and the eyes. Refer to protective measures listed in sections 7 and 8.

**Environmental precautions:** Prevent material from entering sewers, waterways, or low areas.

**Spill Cleanup**: Shovel into suitable container for disposal.

**Accidental Release Measures:** No applicable data available.

## 7. HANDLING AND STORAGE

**Handling (Personnel):** Avoid breathing vapors from overheated material. General industrial hygiene practice.
**Handling (Physical Aspects):** No applicable data available.
**Dust explosion class:** No applicable data available.

**Storage Conditions**: No special storage conditions required. Keep container closed to prevent contamination. No decomposition if stored and applied as directed.

**Storage period:** No applicable data available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** In the event that the polymer is heated above 350ºC/662°F, local ventilation should be used to avoid exposure to fumes.

**Personal protective equipment/Respiratory Protection:** No personal respiratory protective equipment normally required. In the case of hazardous fumes caused by overheating, wear self-contained breathing apparatus.

**Hand protection:** Additional protection: No particular glove type is recommended, but nitrile may be used.

**Eye Protection:** Safety glasses.

**Skin and Body Protection:** No PPE is specified, however, avoid contact with skin, eyes, and clothing. Preventative skin protection.

**Exposure Guidelines/Exposure Limit Values:** This product does not contain any exposure limits that require disclosure according to OSHA Hazard Communication Standard 2012.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---|---|
| **Appearance/Physical State:** | Liquid |
| **Form:** | Viscous, liquid |
| **Color:** | Colorless |
| **Odor:** | None |
| **pH:** | Neutral |
| **Melting point/freezing point:** | Pour point < -5°C (23°F) |
| **Boiling point/boiling range:** | No applicable data available |
| **Evaporation rate:** | No applicable data available |
| **Vapor pressure:** | No applicable data available |
| **Vapor density:** | No applicable data available |
| **Specific gravity:** | 1.86 – 1.91 at 24°C/75°F |
| **Water solubility:** | Insoluble |
| **Solubility(ies):** | No applicable data available |
| **Partition coefficient: n-Octanol/water:** | No applicable data available |
| **Auto-ignition temperature:** | No applicable data available |
| **Decomposition temperature:** | approximately 350°C |

## 10. STABILITY AND REACTIVITY

**Reactivity:** Stable under recommended storage conditions.

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

**Possibility of hazardous Reactions:** Decomposes on heating.

**Conditions to avoid:** Decomposition temperature 350°C/662°F

**Incompatible Materials:** No applicable data available.

**Hazardous decomposition Products:** Hazardous thermal decomposition products: Fluorinated compounds.

## 11. TOXICOLOGICAL INFORMATION

**Carcinogenicity:** The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

## 12. ECOLOGICAL INFORMATION

No data available.

## 13. DISPOSAL CONSIDERATIONS

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

**Contaminated packaging:** Dispose of container properly. If recycling is not practicable, dispose of in compliance with local regulations.

## 14. TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations**

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

## 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: DECEMBER 2015**