



## 1. CHEMICAL PRODUCT/COMPANY IDENTIFICATION

**Product Name:** TriboSys 320X  
(3203, 3204)

**Product Use:** Lubricant

### **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 polymers 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:** If inhaled, remove to fresh air. Get medical attention if symptoms occur.

**Eye:** Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.

**Skin:** Wash skin with soap and water as a precaution. Get medical attention if symptoms occur.

**Oral:** If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed:** Inhalation may provoke the following symptoms: Irritation, Lung edema. Eye contact may provoke the following symptoms: Blurred vision, Discomfort, Lachrymation. Skin contact may provoke the following symptoms: Irritation, Redness.

**Note to Physician:** Treat symptomatically.

## 5. FIRE FIGHTING MEASURES

**Flash Point:** Not applicable

**Method:** Pensky-Martens Close Cup

**Decomposition Temperature:** 300°C/575°F

**Suitable Extinguishing Media:** Not applicable. Will not burn.

**Unsuitable extinguishing media:** Not 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, potentially toxic fluorinated compounds, aerosolized particulates, Carbon oxides.

**Specific extinguishing methods:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged container from fire area if is safe to do so. Evacuate area.

**Special protective equipment:** Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Follow safe handling advice and personal protective equipment recommendations.

**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 spillages cannot be contained.

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

For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed 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 (Personnel):** Avoid breathing vapors from overheated material. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. General industrial hygiene practice. Keep away from food and drink. Keep away from tobacco products. Wash hands and face before breaks and immediately after handling the product. Take care to prevent spills. Waste and minimize release to the environment.

**Storage Conditions:** Keep container closed to prevent contamination. No decomposition if stored and applied as directed. Keep in properly labeled containers.

**Materials to avoid:** No special restrictions on storage with other products.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

**Personal protective equipment/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.

**Skin and hand protection:** Skin should be washed after contact.

**Eye Protection:** Safety glasses.

**Hygiene measures:** Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|  |                                 |
|--|---------------------------------|
| <b>Specific gravity:</b>                       | 1.89 – 1.93 at 24°C/75°F        |
| <b>Appearance:</b>                             | Grease                          |
| <b>Color:</b>                                  | White                           |
| <b>Odor:</b>                                   | None                            |
| <b>pH:</b>                                     | 7                               |
| <b>Melting point/freezing point:</b>           | Melting point/range 320°C/608°F |
| <b>Boiling point/boiling range:</b>            | No data available               |
| <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:** Thermal decomposition products:  
Hydrofluoric acid  
Carbonyl difluoride  
Carbon dioxide  
Carbon monoxide

## **11. TOXICOLOGICAL INFORMATION**

**Acute toxicity:** Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitization**

**Skin sensitization**

Not classified based on available information.

**Respiratory sensitization**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

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.

**Reproductive toxicity**

Not classified based on available information.

**STOT-single exposure**

Not classified based on available information.

**STOT-repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

## **12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

No data available

**Persistence and degradability**

No data available

**Bioaccumulative potential**

No data available

**Mobility in soil**

No data available

### 13. DISPOSAL CONSIDERATIONS

**Waste 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

**U.S. DOT**

Not Regulated

**IATA**

Not Regulated

**IMDG**

Not Regulated

### 15. REGULATORY INFORMATION

#### **U.S. Federal Regulations**

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

**CERCLA Reportable Quantity:** This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity:** This material does not contain any components with a section 304 EHS RQ.

**SARA 302 Extremely Hazardous Substances Threshold Planning Quantity:** This material does not contain any components with a section 302 EHS TPQ

**SARA 311/312 Hazards:** No SARA Hazards

**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

#### **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

#### **FOR INDUSTRIAL USE ONLY**

**REVISION DATE: FEBRUARY 2021**

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.