



## 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

**GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)**

Not a hazardous substance or mixture.

### **GHS Label elements:**

**Hazard Symbol:** None

**Signal word:** None

**Hazard Statements:** None

**Precautionary 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, Shortness of breath

Skin contact may provoke the following symptoms: Irritation, Redness

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

**Notes to Physician:** Treat symptomatically and supportively.

**5. FIRE FIGHTING MEASURES**

**Flash Point:** Not applicable

**Method:** Pinsky-Martens Close Cup

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

**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 (see section 7) and personal protective equipment recommendations (see section 8).

**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. 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 restrictions on 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 polymer is heated above 572°F/300°C, 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>Appearance/Physical State:</b>	Grease
<b>Color:</b>	White
<b>Odor:</b>	Odorless
<b>pH:</b>	7
<b>Melting point:</b>	608°F/320°C
<b>Boiling point/boiling range:</b>	No data available
<b>Flammability:</b>	Will not burn
<b>Evaporation rate:</b>	Not applicable
<b>Vapor pressure:</b>	Not applicable
<b>Vapor density:</b>	Not applicable
<b>Specific gravity:</b>	1.86 – 1.93 at 75°F/24°C
<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>Explosive properties:</b>	Not explosive
<b>Oxidizing properties</b>	Not classified as oxidizing.

## 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:** Hydrogen fluoride, carbonyl fluoride, Carbon oxides.

## **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:** Dispose of in accordance with local regulations. Do not dispose of waste into sewer.

**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:** The chemicals listed below may not be intentionally present in the product; however, it is possible that these chemicals may be present as an impurity and the exact concentration may vary between lots:

Hexafluoropropylene oxide dimer acid, CAS No.: 13252-13-6, < 461 ppb

Perfluorohexanoic acid, CAS No.: 307-24-4, < 73 ppb

Perfluorobutanoic acid, CAS No.: 375-22-4, < 3 ppb

##### U.S. State Regulations

###### Pennsylvania Right to Know

PFPE fluid: Trade Secret

Fluoropolymer: Trade Secret

###### 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 cancer and Carbon monoxide, 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**

### **HMIS Rating:**

Health	- 0
Flammability	- 0
Reactivity	- 0

### **FOR INDUSTRIAL USE ONLY**

### **REVISION DATE: MAY 17, 2024**

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.