miller-stephenson

SDS
Safety Data Sheet

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:** Pensky-Martens Close Cup

Decomposition Temperature: 572°F/300ºC

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/300ºC, 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

Appearance/Physical State:	Grease
Color:	White
Odor:	Odorless
pH:	7
Melting point:	608°F/320°C
Boiling point/boiling range:	No data available
Flammability:	Will not burn
Evaporation rate:	Not applicable
Vapor pressure:	Not applicable
Vapor density:	Not applicable
Specific gravity:	1.86 – 1.93 at 75°F/24°C
Water solubility:	Insoluble
Partition coefficient: n-Octanol/water:	Not applicable
Auto-ignition temperature:	No data available
Decomposition temperature:	572°F/300ºC
Explosive properties:	Not explosive
Oxidizing properties	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. 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.