

OI-055  
G002345

# Material Safety Data Sheet

PART NUMBER - G002345  
MSDS - OI-055

Nye Rheolube 733F

MSDS No. 733F

Date of Preparation: 7/3/96

Revision: 1

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name:** Nye Rheolube 733F  
**General Use:** Lubricating Grease w/ Fluorocarbon Polymer additive.  
**Manufacturer:** Nye Lubricants, Inc.  
P.O. Box 8927  
New Bedford, MA 02742-8927 U.S.A.  
Telephone: (508) 996-6721 (8:00AM - 5:00PM ET weekdays)  
Nights and weekends (Medical Emergencies ONLY): (508)993-4685  
(508)758-9792

## Section 2 - Composition / Information on Ingredients

Ingredient Name	CAS Number	% wt
Polytetrafluoroethylene, PTFE *	9002-84-0	6

Product formulation is Proprietary  
NO ingredients are known to be hazardous under normal usage.

\* Not a hazardous material under normal usage, but PTFE can produce toxic fumes if pyrolyzed. Decomposition is initiated above 300°C.

## Section 3 - Hazards Identification

### ☆☆☆☆☆ Emergency Overview ☆☆☆☆☆

**Summary of risks:** There is no experience with overexposure. Prolonged or repeated skin or eye contact may cause irritation. Polytetrafluoroethylene (PTFE), when thermally decomposed, may cause polymer fume fever and flu-like symptoms. Inhalation of material at high temperatures (over 250°C) must be avoided. **Exercise ordinary, common-sense measures of industrial hygiene when using this product.**

HMIS
H 1
F 0
R 0
PPE†
† Sec 8

### Potential Health Effects

**Primary Entry Routes:** Skin, eyes, inhalation at high temperatures (over 250°C).  
**Target Organs:** Skin, eyes, respiratory passages at high temperatures (over 250°C).  
**Acute Effects:** Possible skin and eye irritation. Polymer fume fever and flu-like symptoms at temperatures above 250°C due to PTFE decomposition.  
**Carcinogenicity:** IARC, NTP, and OSHA do not list Nye Rheolube 733F or its ingredients as carcinogens.  
**Medical Conditions Aggravated by Long-Term Exposure:** None known.  
**Chronic Effects:** None known.

## Section 4 - First Aid Measures

**Inhalation:** Move to fresh air and refer to a physician for treatment.  
**Eye Contact:** Wash thoroughly; contact physician if irritation persists.  
**Skin Contact:** Wash thoroughly with soap and water.  
**Ingestion:** Not expected to be a problem. However, if ingested, immediately give 1 to 2 glasses of water and call a physician. Do not induce vomiting.  
*After first aid, get appropriate in-plant, paramedic, or community medical support.*  
**Special Precautions/Procedures:** Avoid contamination of cigarettes or other tobacco products.

## Section 5 - Fire-Fighting Measures

**Flash Point:** over 400°F (204°C)  
**Flash Point Method:** COC  
**LEL:** N/A  
**UEL:** N/A  
**Extinguishing Media:** CO<sub>2</sub>, Foam, Dry Chemical, Water Spray  
**Unusual Fire or Explosion Hazards:** None



**Hazardous Combustion Products:** Carbonyl Fluoride, Hydrofluoric Acid gas, Perfluorocarbon Olefins, Carbon Monoxide and small amount of other toxic fumes.

**Fire-Fighting Instructions:** Avoid smoke inhalation. Water or foam may cause frothing. Do not release runoff from fire control methods to sewers or waterways.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode.

### Section 6 - Accidental Release Measures

**Spill /Leak Procedures:** Wipe or scrape up grease spillage and place it in a container for disposal.

**Containment:** Do not release into sewers or waterways.

**Cleanup:** Wash walking surfaces thoroughly with detergent and water to reduce slipping hazard.

**Regulatory Requirements:** Follow applicable OSHA regulations (29 CFR 1910.120). Consult applicable state and local regulations.

### Section 7 - Handling and Storage

**Handling Precautions:** Exercise ordinary care in handling industrial lubricants. No special handling precautions are necessary. Avoid contamination of cigarettes or other tobacco products. Wash hands thoroughly before eating or smoking. Users should be alert to the possibility that very small percentages of the population may display unexpected allergic reactions to otherwise innocuous industrial lubricants and raw materials.

**Storage Requirements:** Do not store in open or unlabeled containers. Store away from strong oxidizing agents or combustible material.

**Regulatory Requirements:** None

### Section 8 - Exposure Controls / Personal Protection

**Ventilation:** No special requirements under ordinary conditions of use with adequate ventilation.

**Respiratory Protection:** Not required unless oil mist, smoke or vapors are generated at high temperatures.

**Protective Clothing/Equipment:** Wear chemically protective gloves, and aprons to prevent prolonged or repeated skin contact.

Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133).

Contact lenses are not eye-protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

### Section 9 - Physical and Chemical Properties

**Appearance and Odor:** Smooth, off-white grease with mild odor.

**Vapor Pressure:** Negligible

**Vapor Density (Air=1):** Heavier than air.

**Formula Weight:** Not calculated

**Specific Gravity (H<sub>2</sub>O=1, at 4 °C):** N/A

**pH:** Neutral

**Water Solubility:** Insoluble

**Boiling Point:** Not volatile

**Dropping Point:** over 200°C

**% Volatile:** None

**Evaporation Rate:** Slower than diethyl ether

### Section 10 - Stability and Reactivity

**Stability:** Nye Rheolube 733F is stable at room temperature in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Strong oxidizing materials

**Conditions to Avoid:** Pyrolysis

**Hazardous Decomposition Products:** Thermal oxidative decomposition of Nye Rheolube 733F can produce carbon monoxide as well as small amounts of other toxic fumes.

**Section 11 - Toxicological Information**

**Toxicity Data:** None, not considered to be a hazardous material.

**Section 12 - Ecological Information**

**Environmental Fate and Effects:** No data has been established for this product.

**Section 13 - Disposal Considerations**

**Disposal:** Contact a licensed waste-disposal contractor for detailed recommendations.

**Disposal Regulatory Requirements:** Many states classify waste lubricants as "hazardous", which means disposal only by a licensed firm. Follow applicable Federal, state, and local regulations.

**Section 14 - Transport Information**

**DOT Transportation Data (49 CFR 172.101):** Not Restricted

**Section 15 - Regulatory Information****TSCA:**

All components comply with TSCA.

**EPA Regulations:**

SARA 311/312 Codes: N/A

SARA Toxic Chemical (40 CFR 372.65): N/A

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not listed, Threshold Planning Quantity (TPQ): N/A

**OSHA Regulations:**

Air Contaminant (29 CFR 1910.1000): Oil mist in air if heated above 250°C. Limit for airborne concentration is 5mg m<sup>3</sup>.

**Section 16 - Other Information**

**Prepared By:** GBM

**Disclaimer:** While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Nye Lubricants, Inc. makes no warranty with respect thereto and disclaims all liability with respect thereon.



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