MATERIAL SAFETY DATA SHEET

EMERGENCY PHONE: (631) 205-9700 DATE PREPARED: 01/03/06
CHEMTREC: (800) 424-9300
SUPPLIER: THE ORELUBE CORPORATION
20 Sawgrass Drive
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1 PRODUCT IDENTIFICATION

PRODUCT NAME: Orelube **770 PFPE**
CHEMICAL FAMILY: Perfluoropolyether
PRODUCT USE: Fluoroether-based Lubricating Grease

NFPA
Health - 1
Flammability - 1
Reactivity - 0

2 PRECAUTIONARY INFORMATION

May cause eye irritation. Prolonged and/or repeated skin contact may cause irritation.
Inhalation of oil mist or vapors from material at high temperatures may irritate respiratory passages.
Thermal decomposition (over 290 C) will generate hydrogen fluoride. Polytetrafluoroethylene (PTFE), when thermally decomposed (over 290 C), may cause polymer fume fever.

3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENTS	OSHA PEL	ACGIH TLV	ACGIH STEL	CAS #
This Material Safety Data Sheet (MSDS) has been prepared under guidelines in OSHA Hazard Communication Standard 29 CFR 1910.1200.				
Sodium Nitrite	n/e	n/e	n/e	7632-00-0

n/e - not established
None of the components of this product at concentrations greater than or equal to 0.1% are listed as a carcinogen or potential carcinogen by NTP, IARC, OSHA.

4 POTENTIAL HEALTH EFFECTS

EYE: Product contacting the eyes may cause irritation.
SKIN: Prolonged and/or repeated skin contact may cause irritation. Thermal decomposition (over 290 C) will generate hydrogen fluoride, which is corrosive, causing burns on contact with skin and other tissue.
INGESTION: Do not induce vomiting. Small amounts aspirated into lungs during ingestion or vomiting may cause mild to severe pulmonary injury. May cause gastrointestinal irritation.
INHALATION: Oil mist or vapors at high temperatures may irritate respiratory passages. Inhalation of decomposition products of PTFE (over 290 C) may cause polymer fume fever, a temporary flu-like illness accompanied by fever, chills, and sometimes cough, of approximately 24 hours duration. Repeated episodes of polymer fume fever may cause lung damage. Inhalation of fluorine compounds released as decomposition products (over 290 C) may cause lung irritation and pulmonary edema.
CHRONIC EFFECTS OF OVEREXPOSURE: Prolonged and/or repeated exposure may cause irritation to the skin, eyes, or respiratory tract. Individuals with pre-existing diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures from thermal decomposition products.
PRIMARY ROUTE(S) OF ENTRY:
Eye Skin X Inhalation Ingestion

5 FIRST AID

SKIN: Remove any contaminated clothing. Wash thoroughly for 15 minutes with soap and water. If irritation occurs, get medical attention.
EYES: Immediately flush with plenty of water for 15 minutes. If irritation occurs, get medical attention.
INGESTION: Do not induce vomiting. Get medical attention.
INHALATION: If respiratory discomfort or irritation occurs, move the person to fresh air. Get medical attention.

6 EMPLOYEE PROTECTION

RESPIRATORY: None under normal conditions. NIOSH-approved supplied-air respirator when exposed to mists or vapor from heated material.
VENTILATION: Mechanical (general) is satisfactory. Provide ventilation sufficient to prevent exceeding recommended exposure limit.
HANDS: Oil impervious gloves, if needed, to avoid prolonged or repeated skin contact.
EYES: Splash goggles or face shield when eye contact may occur.
OTHER: Avoid contact with skin and eyes. Wash thoroughly after handling.

7 PHYSICAL/CHEMICAL CHARACTERISTICS

APPEARANCE: Smooth, white
ODOR: Slight
BOILING POINT: Not volatile
SPECIFIC GRAVITY (H20 = 1): 1.94 at 25 C
VAPOR PRESSURE (mm Hg): Negligible
VAPOR DENSITY: Not determined
SOLUBILITY IN WATER: Insoluble
% VOLATILE: None
EVAPORATION RATE: Not determined
PHYSICAL FORM: Grease

8 REACTIVITY

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Thermal oxidative decomposition can produce hydrogen fluoride, carbonyl fluoride, carbon monoxide as well as small amounts of other toxic fumes.
HAZARDOUS POLYMERIZATION: Will not occur
STABILITY: Stable
CONDITIONS TO AVOID: Pyrolysis
INCOMPATIBILITY: Avoid contact with strong oxidizing agents such as liquid chlorine, concentrated oxygen, sodium hypochlorite, etc.

9 FIRE AND EXPLOSION DATA

FLASH POINT (COC): None
FLAMMABLE LIMITS (approx. % by vol. in air):
LEL – N/A UEL – N/A
EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water spray.
SPECIAL FIRE FIGHTING PROCEDURES: Use air-supplied breathing equipment for enclosed areas.
UNUSUAL FIRE AND EXPLOSION HAZARDS: None

10 SPILL OR LEAK PROCEDURES

Recover free product. Contain any spill to prevent entry to sewers or streams. Add sand, earth or suitable absorbent to spill area. Transfer to closed container.

11 WASTE DISPOSAL METHODS

Dispose of in accordance with all applicable local, state and federal regulations. Use licensed waste oil disposal contractor, remove to regulated landfill, or incinerate in an approved facility. Empty containers may contain product residue. Do not cut, heat or weld on or around empty containers.

12 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Store in closed containers away from heat or open flames. Do not store with oxidizing agents.
Not for internal use. Avoid contact with skin, eyes and clothing.

13 TOXICOLOGICAL INFORMATION

None available. A threshold limit value of 5 mg/m3 is suggested for oil mist.

14 ECOLOGICAL INFORMATION

No data has been established for this product.

15 REGULATORY INFORMATION

All components of this product are listed on the TSCA Inventory.
This product does not contain a SARA Title 3 Section 313 (40 CFR 372) reportable chemical.
Not a hazard under SARA 311/312 Hazard Class (40 CFR 370).
No ingredients listed under SARA Extremely Hazardous Substances (40 CFR 355) and CERCLA Hazardous Substances (40 CFR 302).
This product is not considered a controlled product according to the criteria of the Canadian Controlled Products Regulations.

16 TRANSPORTATION INFORMATION

Not regulated by US DOT, IMO, or ICAO.

17 OTHER INFORMATION

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of The Orelube Corporation. The Orelube Corporation assumes no legal responsibility for the use or reliance upon this data.
Please note that the chemical identity of some or all of the ingredients that may or may not be listed herein is confidential business information and is being withheld as permitted by 29 CFR1910.1200 and various State Right-to-Know laws.