MATERIAL SAFETY DATA SHEET

SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

LUBRIPLATE® Lubricants Co.                                  Emergency Telephone Number:
129 Lockwood St.                                             1-800-255-3924-CHEM-TEL (24 hour)
Newark, NJ 07105                                              Telephone Number for information:
                                                         1-973-589-9150

SUBSTANCE: LUBRIPLATE FGL-1 Aerosol                         MSDS No. - 0892150231063

TRADE NAMES/SYNONYMS:

NSF H-1 REGISTRATION NUMBER: 126088

PRODUCT USE: Petroleum lubricating grease

CREATION DATE: 11/13/2008
REVISION DATE: 01/21/2010

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: White mineral oil                               CAS NUMBER: 8042-47-5
EC NUMBER (EINECS): 232-455-8                                PERCENTAGE: 55-60

COMPONENT: Propane                                          CAS NUMBER: 74-98-6
EC NUMBER (EINECS): 200-827-9                                PERCENTAGE: 15-20

COMPONENT: Polybutene                                       CAS NUMBER: 9003-29-6
EC NUMBER (EINECS): 500-004-7                                PERCENTAGE: 5-10

COMPONENT: Zinc oxide                                       CAS NUMBER: 1314-13-2
EC NUMBER (EINECS): 215-222-5                                PERCENTAGE: 5-10

COMPONENT: Fatty acids                                      CAS NUMBER: 68440-15-3
EC NUMBER (EINECS): 270-438-7                                PERCENTAGE: 2-5
COMPONENT: Oxoaluminum acylate  
CAS NUMBER: 151911-66-9  
EC NUMBER (EINECS): not assigned  
PERCENTAGE: 2-5

COMPONENT: Benzoic acid  
CAS NUMBER: 65-85-0  
EC NUMBER (EINECS): 200-618-2  
PERCENTAGE: 0-2

COMPONENT: Disodium sebacate  
CAS NUMBER: 17265-14-4  
EC NUMBER (EINECS): 241-300-3  
PERCENTAGE: 0-1

COMPONENT: Alkylated diphenylamine  
CAS NUMBER: 68411-46-1  
EC NUMBER (EINECS): 270-128-1  
PERCENTAGE: 0-1

COMPONENT: Triphenyl phosphorothionate  
CAS NUMBER: 597-82-0  
EC NUMBER (EINECS): 209-909-9  
PERCENTAGE: 0-1

COMPONENT: Amines  
CAS NUMBER: 80939-62-4  
EC NUMBER (EINECS): 279-632-6  
PERCENTAGE: 0-1

COMPONENT: Sodium benzoate  
CAS NUMBER: 532-32-1  
EC NUMBER (EINECS): 208-534-8  
PERCENTAGE: 0-1

COMPONENT: Petroleum naphtha  
CAS NUMBER: 64742-48-9  
EC NUMBER (EINECS): 265-150-3  
PERCENTAGE: 0-1

NOTE: The IP 346 value of the mineral oil is less than 3%

SECTION 3  HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:  
INHALATION:  
SHORT TERM EXPOSURE: Irritation  
LONG TERM EXPOSURE: Lung damage
SKIN CONTACT:
SHORT TERM EXPOSURE: Irritation
LONG TERM EXPOSURE: Irritation, skin disorders

EYE CONTACT:
SHORT TERM EXPOSURE: Irritation
LONG TERM EXPOSURE: No information available

INGESTION:
SHORT TERM EXPOSURE: Diarrhea, difficulty breathing
LONG TERM EXPOSURE: no information on significant adverse effects

Effects of overexposure: Inhalation is the most likely method of exposure. Minimal effects are expected at levels below the TLV of components. Dizziness, drowsiness, coughing, nasal or throat irritations at higher levels. Propane may act as a simple asphyxiant without other significant physiologic effects if the oxygen content is low.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):
Health – 1
Flammability – 4
Reactivity – 0

Not a Controlled Product under (WHMIS) – Canada Special Protection: See Section 8

SECTION 4 FIRST AID MEASURES

INHALATION: Remove to fresh air. If breathing has stopped, administer artificial respiration. Get medical help immediately.

SKIN CONTACT: Remove any contaminated clothing and wash with soap and warm water.

EYE CONTACT: Flush with clear water for 15 minutes or until irritation subsides. If irritation persists, consult a physician.

INGESTION: If ingested, call a physician immediately. Do not induce vomiting.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard

EXTINGUISHING MEDIA: Foam, Dry Chemical, Carbon Dioxide or Water Spray (Fog)

SPECIAL FIRE FIGHTING PROCEDURES: Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not spray near open flames. At elevated temperatures, (>54 C), aerosol cans may vent, burst, or rupture.
SECTION 6  ACCIDENTAL RELEASE MEASURES

**OCCUPATIONAL RELEASE:** Scrape up grease, wash remainder with suitable petroleum solvent or add absorbent. Keep petroleum products out of sewers and water courses. Advise authorities if product has entered or may enter sewers and water courses.

SECTION 7  HANDLING AND STORAGE

**STORAGE:** Keep containers closed when not in use. Do not handle or store near heat, sparks, flame, or strong oxidants.

SECTION 8  EXPOSURE CONTROLS/PERSONAL PROTECTION

**EXPOSURE LIMITS:**

**OIL MIST IN AIR (Not Encountered in Normal Usage):**
5 mg/m$^3$ UK OES TWA
10 mg/m$^3$ UK OES STEL

**PETROLEUM NAPHTHA:**
400 ppm OSHA PEL
400 ppm ACGIH TLV

**PROPANE:**
1,000 ppm OSHA PEL
1,000 ppm ACGIH TLV

**VENTILATION:** Provide local exhaust ventilation system. Use for fumes and to maintain below TLV value.

**EYE PROTECTION:** Wear splash resistant safety goggles or face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.

**CLOTHING:** Wear appropriate chemical resistant clothing. Use oil-resistant apron if needed.

**GLOVES:** Wear appropriate chemical resistant (nitrile) gloves.

**RESPIRATOR:** Need approved organic vapor mask if TLV is exceeded.

SECTION 9  PHYSICAL AND CHEMICAL PROPERTIES

**PHYSICAL STATE:** aerosol
**APPEARANCE:** smooth
**COLOUR:** white
**PHYSICAL FORM:** aerosol mist
**ODOR:** solvent odor
**BOILING POINT:** not applicable (aerosol)
**FREEZING POINT:** Not available
**FLASH POINT:** propellant < -18 C
**LOWER FLAMMABLE LIMIT:** 0.9% by volume
**UPPER FLAMMABLE LIMIT:** 9.5% by volume
**AUTO IGNITION:** not available
**VAPOUR PRESSURE:** aerosol at 54 C – 105 psig
**VAPOR DENSITY (air=1):** > 1
**SPECIFIC GRAVITY (water=1):** 0.97 (of product)
**DENSITY:** not available
**WATER SOLUBILITY:** insoluble
**pH:** not available
**VOLATILITY:** not available
**ODOR THRESHOLD:** not available
**EVAPORATION RATE (Butyl acetate = 1):** faster
**VISCOSITY:** not available
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** not available

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**SECTION 10  STABILITY AND REACTIVITY**

**REACTIVITY:** Stable at normal temperatures and pressures

**CONDITIONS TO AVOID:** Avoid spraying into open flame or onto red-hot surfaces.

**INCOMPATIBLES:** Oxidising materials, chlorine

**HAZARDOUS DECOMPOSITION:**
Thermal decomposition products or combustion: oxides of carbon, oxides of sulphur

**POLYMERISATION:** Will not polymerise.

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**SECTION 11  TOXICOLOGICAL INFORMATION**

**White mineral oil:**
**TOXICITY DATA:** Greater than 5,000 mg/kg oral-rat LD50

**Propane:**
**TOXICITY DATA:** No data available

**Polybutene:**
**TOXICITY DATA:** Greater than 34,600 mg/kg oral-rat LD50

**Zinc oxide:**
**TOXICITY DATA:** No data available
Fatty acids:
TOXICITY DATA:
No data available

Oxoaluminum acylate:
TOXICITY DATA:
No data available

Benzoic acid:
TOXICITY DATA:
No data available

Disodium sebacate:
TOXICITY DATA:
Greater than 5,000 mg/kg oral-rat LD50

Alkylated diphenylamine:
TOXICITY DATA:
Greater than 5,000 mg/kg oral-rat LD50

Triphenyl phosphorothionate:
TOXICITY DATA:
Greater than 10,000 mg/kg oral-rat LD50

Amines:
TOXICITY DATA:
Greater than 5,000 mg/kg oral-rat LD50

Sodium benzoate:
TOXICITY DATA:
4,100 mg/kg oral-rat LD50

Petroleum naphtha:
TOXICITY DATA:
No data available

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations

SECTION 14 TRANSPORT INFORMATION
LAND TRANSPORT ADR: No classification assigned.

LAND TRANSPORT RID: No classification assigned.

AIR TRANSPORT IATA: ID 8000, CONSUMER COMMODITY, Class 9, Packing Instructions - 910

AIR TRANSPORT ICAO: ID 8000, CONSUMER COMMODITY, Class 9, Packing Instructions - 910

MARITIME TRANSPORT IMDG: UN 1950, AEROSOLS (Ltd. Qty.), Class 2.1, EmS No. F-D, S-U, ERG No. 126

SECTION 15 REGULATORY INFORMATION

EUROPEAN REGULATIONS:
EC CLASSIFICATION (CALCULATED): N
Risk Phrases: R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

SARA/TITLE III, Section 313 Status – Zinc Compounds <8%

SECTION 16 OTHER INFORMATION

The above information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of LUBRIPLATE Lubricants Company. The data on these sheets relates only to the specific material designated herein. LUBRIPLATE Lubricants Company assumes no legal responsibility for use or reliance upon this data.