

**MATERIAL SAFETY DATA SHEET**

---

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

---

**LUBRIPLATE® Lubricants Co.**  
**129 Lockwood St.**  
**Newark, NJ 07105**

**Emergency Telephone Number:**  
**1-800-255-3924-CHEM-TEL (24 hour)**  
**Telephone Number for information:**  
**1-973-589-9150**

**SUBSTANCE: LUBRIPLATE No. 176 Open Gear Lubricant**

**TRADE NAMES/SYNONYMS:**

**PRODUCT USE:** Petroleum lubricating grease

**CREATION DATE:** 04/12/2007

**REVISION DATE:** 03/02/2009

---

**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

---

**COMPONENT:** Residual oils (petroleum), solvent dewaxed

**CAS NUMBER:** 64742-62-7

**EC NUMBER (EINECS):** 265-166-0

**PERCENTAGE:** 55-60

**COMPONENT:** Heavy and light hydrotreated naphthenic distillates (petroleum)

**CAS NUMBER:** 64742-52-5/64742-53-6

**EC NUMBER (EINECS):** 265-155-0/265-156-6

**PERCENTAGE:** 10-15

**COMPONENT:** Viscosity modifier

**CAS NUMBER:** NA

**EC NUMBER (EINECS):** NA

**PERCENTAGE:** 5-10

**COMPONENT:** Graphite

**CAS NUMBER:** 7782-42-5

**EC NUMBER (EINECS):** 231-955-3

**PERCENTAGE:** 5-10

**COMPONENT:** Polyethylene

**CAS NUMBER:** 25087-34-7

**EC NUMBER (EINECS):** not assigned

**PERCENTAGE:** 0-5

**COMPONENT:** Quaternary ammonium bentonite

**CAS NUMBER:** 14808-60-7

**EC NUMBER (EINECS):** 238-878-4  
**PERCENTAGE:** 0-5

**COMPONENT:** Antimony 0,0-dipropylphosphorodithionate  
**CAS NUMBER:** 15874-48-3  
**EC NUMBER (EINECS):** 240-001-5  
**PERCENTAGE:** 0-5

**COMPONENT:** Carbon black  
**CAS NUMBER:** 1333-86-4  
**EC NUMBER (EINECS):** 215-609-9  
**PERCENTAGE:** 0-2

**COMPONENT:** 1,3,4-thiadiazol-2(3H)-thione,5,5-dithiobis  
**CAS NUMBER:** 72676-55-2  
**EC NUMBER (EINECS):** 276-763-0  
**PERCENTAGE:** 0-2

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

**COMPONENT:** Alkyl thiadiazole mixture  
**CAS NUMBER:** NA  
**EC NUMBER (EINECS):** NA  
**PERCENTAGE:** 0-1

**COMPONENT:** Natural latex compound  
**CAS NUMBER:** 9003-31-0  
**EC NUMBER (EINECS):** not assigned  
**PERCENTAGE:** 0-1

**COMPONENT:** Propylene carbonate  
**CAS NUMBER:** 108-32-7  
**EC NUMBER (EINECS):** 203-572-1  
**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

**HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):**

Health – 1

Flammability – 1

Reactivity – 0

**Not a Controlled Product under (WHMIS) – Canada**

**Special Protection: See Section 8**

---

#### SECTION 4 FIRST AID MEASURES

---

**INHALATION:** Vapor pressure is very low and inhalation at room temperature is not a problem. If overcome by vapor from hot product, immediately remove from exposure and call a physician.

**SKIN CONTACT:** Remove any contaminated clothing and wash with soap and warm water. If injected by high pressure under skin, regardless of the appearance or its size, contact a physician IMMEDIATELY. Delay may cause loss of affected part of the body.

**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 store or mix with strong oxidants. Empty containers retain residue. Do not cut, drill, grind, or weld, as they may explode.

---

#### 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<sup>3</sup> UK OES TWA10mg/m<sup>3</sup> UK OES STEL

**VENTILATION:** Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

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

**CLOTHING:** Wear appropriate chemical resistant clothing.

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

**RESPIRATOR:** Consider the need for appropriate protective equipment, such as self-contained breathing apparatus, adequate masks and filters.

---

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

---

**PHYSICAL STATE:** solid

**APPEARANCE:** smooth

**COLOUR:** black

**PHYSICAL FORM:** grease

**ODOR:** mineral oil odor

**BOILING POINT:** >288°C

**FREEZING POINT:** Not available

**FLASH POINT:** 182°C (COC)

**LOWER FLAMMABLE LIMIT:** 0.9% by volume

**UPPER FLAMMABLE LIMIT:** 7.0% by volume

**AUTO IGNITION:** not available

**VAPOUR PRESSURE:** <0.01

**VAPOR DENSITY (air=1):** >5

**SPECIFIC GRAVITY (water=1):** 0.98

**DENSITY:** not available

**WATER SOLUBILITY:** negligible

**pH:** not available

**VOLATILITY:** not available

**ODOR THRESHOLD:** not available

**EVAPORATION RATE (Butyl acetate = 1):** <0.01

**VISCOSITY:** not available

**COEFFICIENT OF WATER/OIL DISTRIBUTION:** not available

---

## SECTION 10 STABILITY AND REACTIVITY

---

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

**CONDITIONS TO AVOID:** Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

**INCOMPATIBLES:** Oxidising materials, chlorine

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products or combustion: oxides of carbon, oxides of sulphur

**POLYMERISATION:** Will not polymerise.

---

## SECTION 11 TOXICOLOGICAL INFORMATION

---

**Residual oils (petroleum), solvent dewaxed:**

**TOXICITY DATA:**

No data available

**Heavy and light hydrotreated naphthenic distillates (petroleum):**

**TOXICITY DATA:**

Low order of dermal and oral toxicity

**Viscosity modifier:**

**TOXICITY DATA:**

Greater than 5,000 mg/kg oral-rat LD50

**Graphite:**

**TOXICITY DATA:**

Greater than 2,000 mg/kg oral-rat LD50

**Polyethylene:**

**TOXICITY DATA:**

No data available

**Quaternary ammonium bentonite:**

**TOXICITY DATA:**

Greater than 8 g/kg oral-rat LD50

**Antimony 0,0-dipropylphosphorodithionate:**

**TOXICITY DATA:**

4,695 mg/kg oral-rat LD50

**Carbon black:**

**TOXICITY DATA:**

Greater than 8,000 mg/kg oral-rat LD50

**1,3,4-thiadiazol-2(3H)-thione,5,5-dithiobis:**

**TOXICITY DATA:**

6,480 mg/kg oral-rat LD50

**Amines:**

**TOXICITY DATA:**

Greater than 5,000 mg/kg oral-rat LD50

**Alkyl thiadiazole mixture:**

**TOXICITY DATA:**

Greater than 10,000 mg/kg oral-rat LD50

**Natural latex compound:**

**TOXICITY DATA:**

No data available

**Propylene carbonate:**

**TOXICITY DATA:**

Greater than 5,000 mg/kg oral-rat LD50

---

**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:** No classification assigned.

**AIR TRANSPORT ICAO:** No classification assigned.

**MARITIME TRANSPORT IMDG:** No classification assigned.

---

**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 – Antimony Compounds <3%

---

**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.**