

**MATERIAL SAFETY DATA SHEET**

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

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**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 Syn 1600**

**TRADE NAMES/SYNONYMS:**

**PRODUCT USE:** Synthetic lubricating grease

**CREATION DATE:** 06/14/2007

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

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**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

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**COMPONENT:** Polyalphaolefin

**CAS NUMBER:** 68037-01-4

**EC NUMBER (EINECS):** 500-183-1

**PERCENTAGE:** 75-80

**COMPONENT:** Zinc oxide

**CAS NUMBER:** 1314-13-2

**EC NUMBER (EINECS):** 215-222-5

**PERCENTAGE:** 5-10

**COMPONENT:** 12 hydroxystearic acid

**CAS NUMBER:** 106-14-9

**EC NUMBER (EINECS):** 203-366-1

**PERCENTAGE:** 5-10

**COMPONENT:** Antimony 0,0-dipropylphosphorodithionate

**CAS NUMBER:** 15874-48-3

**EC NUMBER (EINECS):** 240-001-5

**PERCENTAGE:** 2-5

**COMPONENT:** Dimethyl sebacate

**CAS NUMBER:** 106-79-6

**EC NUMBER (EINECS):** 203-431-4

**PERCENTAGE:** 2-5

**COMPONENT:** Lithium hydroxide monohydrate

**CAS NUMBER:** 1310-66-3

**EC NUMBER (EINECS):** Not assigned  
**PERCENTAGE:** 2-5

**COMPONENT:** Lithium alkyl naphthalenesulfonate  
**CAS NUMBER:** NA  
**EC NUMBER (EINECS):** NA  
**PERCENTAGE:** 0-1

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

**COMPONENT:** Butyl zimate  
**CAS NUMBER:** 136-23-2  
**EC NUMBER (EINECS):** 205-232-8  
**PERCENTAGE:** 0-1

**COMPONENT:** Petroleum hydrocarbon  
**CAS NUMBER:** 64742-58-1  
**EC NUMBER (EINECS):** 265-161-3  
**PERCENTAGE:** 0-1

**COMPONENT:** Amine alkyl naphthalenesulfonate  
**CAS NUMBER:** NA  
**EC NUMBER (EINECS):** NA  
**PERCENTAGE:** 0-1

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

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### SECTION 3 HAZARDS IDENTIFICATION

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#### **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**

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**SECTION 4 FIRST AID MEASURES**

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**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.

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**SECTION 5 FIRE FIGHTING MEASURES**

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**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.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**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.

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**SECTION 7 HANDLING AND STORAGE**

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

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**EXPOSURE LIMITS:**

**OIL MIST IN AIR (Not Encountered in Normal Usage):**

5 mg/m<sup>3</sup> UK OES TWA  
10mg/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.

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## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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**PHYSICAL STATE:** semi-solid

**APPEARANCE:** smooth

**COLOUR:** off-white

**PHYSICAL FORM:** grease

**ODOR:** mineral oil odor

**BOILING POINT:** >288°C

**FREEZING POINT:** Not available

**FLASH POINT:** 260°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):** 0.96

**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

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## SECTION 10 STABILITY AND REACTIVITY

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**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.

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**SECTION 11 TOXICOLOGICAL INFORMATION**

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**Polyalphaolefin:**

**TOXICITY DATA:**

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

**Zinc oxide:**

**TOXICITY DATA:**

No data available

**12 hydroxystearic acid:**

**TOXICITY DATA:**

Greater than 5 g/kg oral-rat LD50

**Antimony 0,0-dipropylphosphorodithionate:**

**TOXICITY DATA:**

4,965 mg/kg oral-rat LD50

**Dimethyl sebacate:**

**TOXICITY DATA:**

Greater than 16,000 g/kg oral-rat LD50

**Lithium hydroxide monohydrate:**

**TOXICITY DATA:**

210 g/kg oral-rat LD50

**Lithium alkyl naphthalenesulfonate:**

**TOXICITY DATA:**

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

**Alkyl thiadiazole mixture:**

**TOXICITY DATA:**

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

**Butyl zimate:**

**TOXICITY DATA:**

Greater than 16,000 g/kg oral-rat LD50

**Petroleum hydrocarbon:**

**TOXICITY DATA:**

No data available

**Amine alkyl naphthalenesulfonate:****TOXICITY DATA:**

No data available

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**SECTION 12 ECOLOGICAL INFORMATION**

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Not available

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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Dispose in accordance with all applicable regulations

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**SECTION 14 TRANSPORT INFORMATION**

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**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.

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**SECTION 15 REGULATORY INFORMATION**

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**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 &lt;8%, Antimony Compounds &lt;4%

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**SECTION 16 OTHER INFORMATION**

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