



**Chemical Name:** Gear Shield Extra Heavy

**Manufacturer:** Lubriplate

**Container size:** 11oz.

**Location:** VLA

**Disposal:** Place empty container in trash.

**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 Gear Shield Extra Heavy (Aerosol)      MSDS No. - 0892150152063**

**TRADE NAMES/SYNONYMS:**

**PRODUCT USE:** Petroleum lubricating grease

**CREATION DATE:** 11/05/2007

**REVISION DATE:** 01/21/2010

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**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

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**COMPONENT:** Heptane  
**CAS NUMBER:** 142-82-5  
**EC NUMBER (EINECS):** 205-563-8  
**PERCENTAGE:** 20-25

**COMPONENT:** Liquefied petroleum gas  
**CAS NUMBER:** 68476-86-8  
**EC NUMBER (EINECS):** 270-704-2  
**PERCENTAGE:** 15-20

**COMPONENT:** Light petroleum distillates  
**CAS NUMBER:** 64742-47-8  
**EC NUMBER (EINECS):** 265-149-8  
**PERCENTAGE:** 15-20

**COMPONENT:** Heavy hydrotreated naphthenic distillates (petroleum)  
**CAS NUMBER:** 64742-52-5  
**EC NUMBER (EINECS):** 265-155-0  
**PERCENTAGE:** 10-15

**COMPONENT:** Residual oils (petroleum), solvent dewaxed  
**CAS NUMBER:** 64742-62-7  
**EC NUMBER (EINECS):** 265-166-0  
**PERCENTAGE:** 5-10

**COMPONENT:** Petroleum asphalt  
**CAS NUMBER:** 8052-42-4

**EC NUMBER (EINECS):** 232-490-9

**PERCENTAGE:** 5-10

**COMPONENT:** Petroleum hydrocarbon

**CAS NUMBER:** NA

**EC NUMBER (EINECS):** NA

**PERCENTAGE:** 2-5

**COMPONENT:** Zinc oxide

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

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

**PERCENTAGE:** 2-5

**COMPONENT:** 12 hydroxystearic acid

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

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

**PERCENTAGE:** 2-5

**COMPONENT:** Carbon black

**CAS NUMBER:** 1333-86-4

**EC NUMBER (EINECS):** 215-609-9

**PERCENTAGE:** 0-2

**COMPONENT:** Inedible animal grease

**CAS NUMBER:** 68153-81-1

**EC NUMBER (EINECS):** 268-896-8

**PERCENTAGE:** 0-1

**COMPONENT:** Lithium hydroxide monohydrate

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

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

**PERCENTAGE:** 0-1

**COMPONENT:** Petroleum hydrocarbon

**CAS NUMBER:** 64742-58-1

**EC NUMBER (EINECS):** 265-161-3

**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

**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. LPG may act as a simple asphyxiant without other significant physiologic effects if the oxygen content is low. It is reported that overexposure can cause liver abnormalities, kidney, lung and spleen damage in test animals.

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

Health – 1

Flammability – 4

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:** 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.

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#### SECTION 5 FIRE FIGHTING MEASURES

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**FIRE AND EXPLOSION HAZARDS:** Fire hazard

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

**SPECIAL FIRE FIGHTING PROCEDURES:** Keep containers cool. Use air-supplied breathing equipment for enclosed or confined spaces. Use shielding to protect personnel against bursting containers.

**UNUSUAL FIRE AND EXPLOSION HAZARDS:** Do not spray near open flame. At elevated temperatures (over 54 C), aerosol containers may vent, burst, or rupture.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**OCCUPATIONAL RELEASE:** Remove sources of ignition, ventilate area. Use appropriate safety equipment to enter area. Allow time for vapors to be below their TLV. Add oil absorbent and clean area. Keep petroleum products out of sewers and water courses.

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**SECTION 7 HANDLING AND STORAGE**

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**STORAGE:** Store in cool, dry area out of direct sunlight. Do not puncture or incinerate, or heat full or empty containers above 54 C.

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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 TWA10mg/m<sup>3</sup> UK OES STEL**HEPTANE:**

400 ppm PEL

**LIQUEFIED PETROLEUM GAS:**

1,800 ppm PEL

**LIGHT PETROLEUM DISTILLATES:**

500 ppm PEL

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

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL STATE:** aerosol

**APPEARANCE:** smooth

**COLOUR:** black/gray

**PHYSICAL FORM:** aerosol mist

**ODOR:** solvent odor  
**BOILING POINT:** not available  
**FREEZING POINT:** not available  
**FLASH POINT:** propellant - <-18 C  
**LOWER FLAMMABLE LIMIT:** not determined  
**UPPER FLAMMABLE LIMIT:** not determined  
**AUTO IGNITION:** not available  
**VAPOUR PRESSURE:** aerosol at 54 C - 115 psig  
**VAPOR DENSITY (air=1):** >1  
**SPECIFIC GRAVITY (water=1):** 0.98 (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

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

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

**INCOMPATIBLES:** Strong oxidants

**HAZARDOUS DECOMPOSITION:**

Thermal decomposition products or combustion: may form carbon monoxide

**POLYMERISATION:** Will not polymerise.

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## SECTION 11 TOXICOLOGICAL INFORMATION

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**Heptane:**

**TOXICITY DATA:**

No data available

**Liquefied petroleum gas:**

**TOXICITY DATA:**

No data available

**Light petroleum distillates:**

**TOXICITY DATA:**

No data available

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

**TOXICITY DATA:**

Low order of dermal and oral toxicity

**Petroleum hydrocarbons:**

**TOXICITY DATA:**

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

**Petroleum asphalt:**

**TOXICITY DATA:**

No data available

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

**TOXICITY DATA:**

No data available

**Zinc oxide:**

**TOXICITY DATA:**

No data available

**12 hydroxystearic acid:**

**TOXICITY DATA:**

Greater than 5 g/kg oral-rat LD50

**Carbon black:**

**TOXICITY DATA:**

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

**Inedible animal grease:**

**TOXICITY DATA:**

No data available

**Lithium hydroxide monohydrate:**

**TOXICITY DATA:**

210 mg/kg oral-rat LD50

**Petroleum hydrocarbon:**

**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:** 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

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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 <3%

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SECTION 16 OTHER INFORMATION

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