

MATERIAL SAFETY DATA SHEET

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

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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: 10/11/2012

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

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%

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. 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

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: 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

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.

SECTION 7 HANDLING AND STORAGE

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

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:**OIL MIST IN AIR (Not Encountered in Normal Usage):**5 mg/m³ UK OES TWA10mg/m³ 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

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

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: Strong oxidants

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: may form carbon monoxide

POLYMERISATION: Will not polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

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

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 – Y963

AIR TRANSPORT ICAO: ID 8000, CONSUMER COMMODITY, CLASS 9, PACKING INSTRUCTIONS – Y963

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 <3%

SECTION 16 OTHER INFORMATION

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