

MATERIAL SAFETY DATA SHEET

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

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Telephone Number for information:
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SUBSTANCE: LUBRIPLATE White Lithium Spray Lube "A" (Aerosol)

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: Heptane
CAS NUMBER: 142-82-5
EC NUMBER (EINECS): 205-563-8
PERCENTAGE: 40-45

COMPONENT: Heavy hydrotreated naphthenic distillates (petroleum)
CAS NUMBER: 64742-52-5
EC NUMBER (EINECS): 265-155-0
PERCENTAGE: 30-35

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

COMPONENT: Zinc oxide
CAS NUMBER: 1314-13-2
EC NUMBER (EINECS): 215-222-5
PERCENTAGE: 0-5

COMPONENT: Inedible animal grease
CAS NUMBER: 68153-81-1
EC NUMBER (EINECS): 268-896-8
PERCENTAGE: 0-2

COMPONENT: Stearic acid
CAS NUMBER: 68440-15-3
EC NUMBER (EINECS): 270-438-7
PERCENTAGE: 0-1

COMPONENT: Lithium hydroxide monohydrate
CAS NUMBER: 1310-66-3
EC NUMBER (EINECS): not assigned
PERCENTAGE: 0-1

COMPONENT: Diphenylamine
CAS NUMBER: 122-39-4
EC NUMBER (EINECS): 204-539-4
PERCENTAGE: 0-1

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

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

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

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 may occur 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 overexposures can cause liver abnormalities, kidney, lung and spleen damage in animals.

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 – 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 at elevated temperatures

EXTINGUISHING MEDIA: Foam, Dry Chemical or Carbon Dioxide

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 and 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 TWA

10 mg/m³ UK OES STEL

HEPTANE:

1,600 mg/m³ OSHA PEL

1,600 mg/m³ ACGIH TLV

PROPANE:

1,000 ppm OSHA PEL

1,000 ppm ACGIH TLV

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: aerosol

APPEARANCE: aerosol

COLOUR: white

PHYSICAL FORM: aerosol

ODOR: solvent odor

BOILING POINT: not applicable (aerosol)

FREEZING POINT: Not available

FLASH POINT: <-18°C (COC)

LOWER FLAMMABLE LIMIT: 0.9% by volume

UPPER FLAMMABLE LIMIT: 9.5% by volume

AUTO IGNITION: not available

VAPOUR PRESSURE: 115 psig at 54°C

VAPOR DENSITY (air=1): >1

SPECIFIC GRAVITY (water=1): (for product) 0.94

DENSITY: not available

WATER SOLUBILITY: negligible

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 oxidizers

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: oxides of carbon

POLYMERISATION: Will not polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

Heptane:

TOXICITY DATA:

No data available

Propane:

TOXICITY DATA:

No data available

Heavy hydrotreated naphthenic distillates (petroleum):

TOXICITY DATA:

Low order of dermal and oral toxicity

Zinc oxide:

TOXICITY DATA:

No data available

Inedible animal grease:

TOXICITY DATA:

No data available

Lithium hydroxide monohydrate:

TOXICITY DATA:

210 mg/kg oral-rat LD50

Stearic acid:

TOXICITY DATA:

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

Diphenylamine:

TOXICITY DATA:

3,200 mg/kg oral-rat LD50

Butyl zimate:

TOXICITY DATA:

Greater than 16,000 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: 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 <4%

SECTION 16 OTHER INFORMATION

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