

MATERIAL SAFETY DATA SHEET

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

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SUBSTANCE: LUBRIPLATE Super FML-2 Aerosol

TRADE NAMES/SYNONYMS:

PRODUCT USE: Petroleum lubricating grease

CREATION DATE: 11/13/2008

REVISION DATE: 02/27/2009

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: White mineral oil
CAS NUMBER: 8042-47-5
EC NUMBER (EINECS): 232-455-8
PERCENTAGE: 55-60

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

COMPONENT: Polybutene
CAS NUMBER: 9003-29-6
EC NUMBER (EINECS): 500-004-7
PERCENTAGE: 10-15

COMPONENT: 12 hydroxystearic acid
CAS NUMBER: 106-14-9
EC NUMBER (EINECS): 203-366-1
PERCENTAGE: 5-10

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

COMPONENT: Calcium hydroxide
CAS NUMBER: 1305-62-0

EC NUMBER (EINECS): 215-137-3
PERCENTAGE: 0-2

COMPONENT: Alkylated diphenylamine
CAS NUMBER: 68411-46-1
EC NUMBER (EINECS): 270-128-1
PERCENTAGE: 0-1

COMPONENT: Triphenyl phosphorothionate
CAS NUMBER: 597-82-0
EC NUMBER (EINECS): 209-909-9
PERCENTAGE: 0-1

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

COMPONENT: Sodium benzoate
CAS NUMBER: 532-32-1
EC NUMBER (EINECS): 208-534-8
PERCENTAGE: 0-1

COMPONENT: Petroleum naphtha
CAS NUMBER: 64742-48-9
EC NUMBER (EINECS): 265-150-3
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. Propane may act as a simple asphyxiant without other significant physiologic effects if the oxygen content is low.

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: 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 spray near open flames. At elevated temperatures, (>54 C), aerosol cans may vent, burst, or rupture.

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/m³ UK OES TWA10mg/m³ UK OES STEL**PETROLEUM NAPHTHA:**

400 ppm OSHA PEL

400 ppm ACGIH TLV

PROPANE:

1,000 ppm OSHA PEL

1,000 ppm ACGIH TLV

VENTILATION: Provide local exhaust ventilation system. Use for fumes and to maintain below TLV value.**EYE PROTECTION:** Wear splash resistant safety goggles or face shield. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.**CLOTHING:** Wear appropriate chemical resistant clothing. Use oil-resistant apron if needed.**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:** white**PHYSICAL FORM:** aerosol mist**ODOR:** solvent odor**BOILING POINT:** not applicable (aerosol)**FREEZING POINT:** Not available**FLASH POINT:** propellant <-18 C**LOWER FLAMMABLE LIMIT:** 0.9% by volume**UPPER FLAMMABLE LIMIT:** 9.5% by volume**AUTO IGNITION:** not available**VAPOUR PRESSURE:** aerosol at 54 C – 105 psig**VAPOR DENSITY (air=1):** >1**SPECIFIC GRAVITY (water=1):** 0.95 (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: Oxidising materials, chlorine

HAZARDOUS DECOMPOSITION:

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

POLYMERISATION: Will not polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

White mineral oil:

TOXICITY DATA:

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

Propane:

TOXICITY DATA:

No data available

Polybutene:

TOXICITY DATA:

Greater than 34,600 mg/kg oral-rat LD50

12 hydroxystearic acid:

TOXICITY DATA:

Greater than 5 g/kg oral-rat LD50

Zinc oxide:

TOXICITY DATA:

No data available

Calcium hydroxide:

TOXICITY DATA:

No data available

Alkylated diphenylamine:

TOXICITY DATA:

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

Triphenyl phosphorothionate:

TOXICITY DATA:

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

Amines:

TOXICITY DATA:

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

Sodium benzoate:

TOXICITY DATA:

4,100 mg/kg oral-rat LD50

Petroleum naphtha:

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 - 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 <8%

SECTION 16 OTHER INFORMATION

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