

MATERIAL SAFETY DATA SHEET

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

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SUBSTANCE: LUBRIPLATE Super FML-1

TRADE NAMES/SYNONYMS:

NSF H-1 REGISTRATION NUMBER: 125740

PRODUCT USE: Petroleum lubricating grease

CREATION DATE: 06/14/2007

REVISION DATE: 03/02/2009

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: White mineral oil
CAS NUMBER: 8042-47-5
EC NUMBER (EINECS): 232-455-8
PERCENTAGE: 70-75

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: 5-10

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

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

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

Health – 1

Flammability – 1

Reactivity – 0

Not a Controlled Product under (WHMIS) – Canada

Special Protection: See Section 8

SECTION 4 FIRST AID MEASURES

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.

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 store or mix with strong oxidants. Empty containers retain residue. Do not cut, drill, grind, or weld, as they may explode.

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 TWA

10mg/m³ 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.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: semi-solid

APPEARANCE: smooth

COLOUR: white

PHYSICAL FORM: grease

ODOR: mineral oil odor

BOILING POINT: >288°C

FREEZING POINT: Not available

FLASH POINT: 224°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): 0.91

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

SECTION 10 STABILITY AND REACTIVITY

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.

SECTION 11 TOXICOLOGICAL INFORMATION

White mineral oil:

TOXICITY DATA:

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

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

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: No classification assigned.

AIR TRANSPORT ICAO: No classification assigned.

MARITIME TRANSPORT IMDG: No classification assigned.

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 <6%

SECTION 16 OTHER INFORMATION

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