

MATERIAL SAFETY DATA SHEET

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

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SUBSTANCE: LUBRIPLATE Chain & Cable Fluid (BULK)

TRADE NAMES/SYNONYMS:

PRODUCT USE: Petroleum lubricating oil

CREATION DATE: 02/14/2008

REVISION DATE: 03/03/2009

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Heavy and light hydrotreated naphthenic distillates (petroleum)

CAS NUMBER: 64742-52-5/64742-53-6

EC NUMBER (EINECS): 265-155-0/265-156-6

PERCENTAGE: 90-95

COMPONENT: 2-butoxyethanol

CAS NUMBER: 111-76-2

EC NUMBER (EINECS): 203-905-0

PERCENTAGE: 2-5

COMPONENT: Calcium oxidate mixture

CAS NUMBER: NA

EC NUMBER (EINECS): NA

PERCENTAGE: 0-2

COMPONENT: Mixed zinc carboxylates

CAS NUMBER: 12001-85-3

EC NUMBER (EINECS): 234-409-2

PERCENTAGE: 0-2

COMPONENT: Olefin sulfide mixture

CAS NUMBER: NA

EC NUMBER (EINECS): NA

PERCENTAGE: 0-2

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

WHMIS Hazard Class (Canada) – D/1/A**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 exposed area with soap and warm water.**EYE CONTACT:** Flush eyes with clear water for at least 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:** Carbon dioxide, regular dry chemical, regular foam, or water spray (fog)**FIRE FIGHTING:** Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.**UNUSUAL FIRE FIGHTING AND EXPLOSION HAZARDS:** Do not store or mix with strong oxidants. Empty containers contain residue. Do not cut, drill, grind, or weld, as they may explode.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: may form SO₂. If incomplete combustion, carbon monoxide .

SECTION 6 ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE: Handle as an oil spill. Avoid breathing vapors or mist. Use adequate ventilation.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store at temperatures below 40 C. Store in a cool, dry area in tightly closed containers. Use adequate ventilation. Avoid excessive heat, sparks, or open flames. Avoid excessive heat, sparks, or open flames. Avoid prolonged or repeated skin contact.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:**MINERAL OIL MIST:**

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: liquid

APPEARANCE: transparent

COLOUR: amber

PHYSICAL FORM: oil

ODOR: sweet odor

BOILING POINT: >288 C

FREEZING POINT: Not available

FLASH POINT: 154 C (COC)

LOWER FLAMMABLE LIMIT: 0.9% by volume
UPPER FLAMMABLE LIMIT: 7.0% by volume
AUTO IGNITION: 177 C (COC)
VAPOUR PRESSURE: <5
VAPOR DENSITY (air=1): <5
SPECIFIC GRAVITY (water=1): 0.93
DENSITY: not available
WATER SOLUBILITY: negligible
pH: not available
VOLATILITY: not available
ODOR THRESHOLD: not available
EVAPORATION RATE (butyl acetate = 1): not determined
VISCOSITY: 6 mm²/s @ 100 C
COEFFICIENT OF WATER/OIL DISTRIBUTION: not available

SECTION 10 STABILITY AND REACTIVITY

REACTIVITY: Stable at normal temperatures and pressures

CONDITIONS TO AVOID: Avoid contact with strong oxidants like liquid chlorine, concentrated oxygen.

INCOMPATIBLES: Strong oxidizers

HAZARDOUS DECOMPOSITION:

Thermal decomposition products or combustion: may form SO₂, carbon monoxide, hydrogen chloride

POLYMERISATION: Will not polymerise.

SECTION 11 TOXICOLOGICAL INFORMATION

Heavy and light hydrotreated naphthenic distillates:

TOXICITY DATA:

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

2-butoxyethanol:

TOXICITY DATA:

435 mg/kg oral-rat LD50

Calcium oxidate mixture:

TOXICITY DATA:

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

Mixed zinc carboxylates:

TOXICITY DATA:

No data available

Olefin sulfide mixture:

TOXICITY DATA:

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

SECTION 12 ECOLOGICAL INFORMATION

Not available

SECTION 13 DISPOSAL CONSIDERATIONS

Dispose in accordance with all applicable regulations.

Do not puncture or incinerate containers. Give empty, leaking or full containers to a disposal service equipped to safely handle and dispose of pressurized containers.

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): Not classified as dangerous.

SECTION 16 OTHER INFORMATION

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