

MATERIAL SAFETY DATA SHEET

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

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SUBSTANCE: LUBRIPLATE Metal Working Fluid (Aerosol)

TRADE NAMES/SYNONYMS:

PRODUCT USE: Petroleum lubricating oil

CREATION DATE: 02/13/2008

REVISION DATE: 03/03/2009

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Heavy and hydrotreated naphthenic distillates (petroleum)

CAS NUMBER: 64742-52-5/64742-53-65

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

PERCENTAGE: 65-70

COMPONENT: Propane

CAS NUMBER: 74-98-6

EC NUMBER (EINECS): 200-827-9

PERCENTAGE: 20-25

COMPONENT: o-dichlorobenzene

CAS NUMBER: 95-50-1

EC NUMBER (EINECS): 202-425-9

PERCENTAGE: 2-5

COMPONENT: Zinc naphthaenate 10%

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

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.

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: 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: Recover liquid, 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.

SARA/TITLE III, Section 313 Status – 1,2-dichlorobenzene - <4%

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: mist

APPEARANCE: transparent

COLOUR: off white

PHYSICAL FORM: aerosol

ODOR: additive odor from aerosol can

BOILING POINT: Aerosol (N/A)

FREEZING POINT: Not available

FLASH POINT: product 154 C (COC); propellant <0°F

LOWER FLAMMABLE LIMIT: 0.9% by volume

UPPER FLAMMABLE LIMIT: 7.0% by volume

AUTO IGNITION: product 177 C (COC)

VAPOUR PRESSURE: Aerosol at 130°F – 80 psig

VAPOR DENSITY (air=1): >1

SPECIFIC GRAVITY (water=1): product 0.93

DENSITY: not available

WATER SOLUBILITY: insoluble

pH: not available

VOLATILITY: not available

ODOR THRESHOLD: not available

EVAPORATION RATE: faster

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 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

Heavy and light hydrotreated naphthenic distillates (petroleum):

TOXICITY DATA:

>5,000 mg/kg oral-rat

Propane:

TOXICITY DATA:

Not available

o-dichlorobenzene:

TOXICITY DATA:

500 mg/kg oral-rat

Olefin sulfide mixture:

TOXICITY DATA:

>5,000 mg/kg oral-rat

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): Not classified as dangerous.

SECTION 16 OTHER INFORMATION

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