

MATERIAL SAFETY DATA SHEET

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

LUBRIPLATE® Lubricants Co.
129 Lockwood St.
Newark, NJ 07105

Emergency Telephone Number:
1-800-255-3924-CHEM-TEL (24 hour)
Telephone Number for information:
1-973-589-9150

SUBSTANCE: LUBRIPLATE Biodegradable Penetrating Oil (Aerosol)

TRADE NAMES/SYNONYMS:

PRODUCT USE: Biodegradable lubricating oil

CREATION DATE: 11/12/2010

REVISION DATE: 04/18/2011

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Glycerides, C16-18

CAS NUMBER: 68002-71-1

EC NUMBER (EINECS): 268-084-3

PERCENTAGE: 50-55

COMPONENT: Methyl soyate

CAS NUMBER: 67784-80-9

EC NUMBER (EINECS): 267-055-2

PERCENTAGE: 30-35

COMPONENT: Carbon dioxide (propellant)

CAS NUMBER: 124-38-9

EC NUMBER (EINECS): 204-696-9

PERCENTAGE: 0-5

SECTION 3 HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

INHALATION:

SHORT TERM EXPOSURE: ACGIH – listed as simple asphyxiant

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. Carbon dioxide may act as a simple asphyxiant without other significant physiologic effects if the oxygen content is low.

LONG TERM EXPOSURE: Lung damage

SKIN CONTACT:

SHORT TERM EXPOSURE: Prolonged exposure may cause dryness of the skin

LONG TERM EXPOSURE: Irritation

EYE CONTACT:

SHORT TERM EXPOSURE: Irritation

LONG TERM EXPOSURE: No information available

INGESTION:

SHORT TERM EXPOSURE: No harmful effects expected in amounts likely to be ingested by accident

LONG TERM EXPOSURE: no information on significant adverse effects

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS):

Health – 1

Flammability – 2

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 eyes with clear water for 15 minutes or until irritation subsides. If irritation persists, consult a physician.

INGESTION: No adverse effects due to ingestion are expected.

SECTION 5 FIRE FIGHTING MEASURES

FIRE AND EXPLOSION HAZARDS: Slight fire hazard

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide

FIRE FIGHTING: Keep containers cool. Use air-supplied breathing equipment for enclosed or confined spaces. Use shielding to protect personnel against bursting containers.

HAZARDOUS COMBUSTION PRODUCTS:

Thermal decomposition products or combustion: may form carbon oxides

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: Sweep up or scoop up and remove. Advise authorities if product has entered or may enter sewers and watercourses.

SECTION 7 HANDLING AND STORAGE

STORAGE: Store and handle in accordance with all current regulations and standards. Keep container tightly closed. Keep away from heat, sparks, and flame. See original container for storage recommendations. Keep separated from incompatible substances.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:**OIL MIST:**5 mg/m³ UK OES TWA10mg/m³ UK OES STEL**CARBON DIOXIDE:**

5,000 ppm OSHA PEL

5,000 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. Need approved organic vapor mask if TLV is exceeded.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: aerosol

APPEARANCE: transparent

COLOUR: yellow mist from aerosol can

PHYSICAL FORM: oil

ODOR: mild odor

BOILING POINT: >288 C

FREEZING POINT: Not available

FLASH POINT: 204 C (without propellant)

LOWER FLAMMABLE LIMIT: not available

UPPER FLAMMABLE LIMIT: not available
AUTO IGNITION: 227 C (without propellant)
VAPOUR PRESSURE: <0.01 mm Hg (without propellant)
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: Faster
VISCOSITY: 16 mm²/s @ 40 C (without propellant)
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 strong oxidants like liquid chlorine, concentrated oxygen.

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

Glycerides C16-18:

TOXICITY DATA:

No data available

Methyl soyate:

TOXICITY DATA:

No data available

Carbon dioxide:

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): Not classified as dangerous.

SECTION 16 OTHER INFORMATION

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