

MATERIAL SAFETY DATA SHEET

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

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SUBSTANCE: LUBRIPLATE Synthetic Worm Gear Lubricant

TRADE NAMES/SYNONYMS:

PRODUCT USE: Synthetic lubricating oil

CREATION DATE: 04/07/2008

REVISION DATE: 03/05/2009

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Polyalphaolefin
CAS NUMBER: 68037-01-4
EC NUMBER (EINECS): 500-183-1
PERCENTAGE: 95-100

COMPONENT: Benzenepropanoic acid
CAS NUMBER: 41484-35-9
EC NUMBER (EINECS): 255-392-8
PERCENTAGE: 0-1

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): 500-004-7
PERCENTAGE: 0-1

COMPONENT: Phosphate derivatives
CAS NUMBER: NA

EC NUMBER (EINECS): NA

PERCENTAGE: 0-1

COMPONENT: Polyisobutylene

CAS NUMBER: 9003-27-4

EC NUMBER (EINECS): not assigned

PERCENTAGE: 0-1

COMPONENT: Propyl paraben

CAS NUMBER: 94-13-3

EC NUMBER (EINECS): 202-307-7

PERCENTAGE: 0-1

COMPONENT: Antifoam/defoamer

CAS NUMBER: NA

EC NUMBER (EINECS): NA

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 body.

EYE CONTACT: Flush eyes 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)

FIRE FIGHTING: Cool exposed containers with water. Use air-supplied breathing equipment for enclosed or confined spaces.

HAZARDOUS COMBUSTION PRODUCTS:

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

UNUSUAL FIRE 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.

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 watercourses. 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:

White mineral oil:

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: clear

COLOUR: water-white

PHYSICAL FORM: oil

ODOR: odorless

BOILING POINT: >288 C

FREEZING POINT: Not available

FLASH POINT: 288 C (COC)

LOWER FLAMMABLE LIMIT: 0.9% by volume

UPPER FLAMMABLE LIMIT: 7.0% by volume

AUTO IGNITION: 307 C (COC)

VAPOUR PRESSURE: <0.01 mm Hg

VAPOR DENSITY (air=1): >5

SPECIFIC GRAVITY (water=1): 0.8597

DENSITY: not available

WATER SOLUBILITY: negligible

pH: not available

VOLATILITY: not available

ODOR THRESHOLD: not available

EVAPORATION RATE: <0.01 (Butyl acetate=1)

VISCOSITY: 46.6 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 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

Polyalphaolefin:

TOXICITY DATA:

Greater than 2,000 mg/kg LD50 oral-rat

Benzenepropanoic acid:

TOXICITY DATA:

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

Alkylated diphenylamine:

TOXICITY DATA:

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

Triphenyl phosphorothionate:

TOXICITY DATA:

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

Amines:

TOXICITY DATA:

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

Phosphate derivatives:

TOXICITY DATA:

Greater than 2,000 mg/kg LD50 oral-rat

Polyisobutylene:

TOXICITY DATA:

No data available

Propyl paraben:

TOXICITY DATA:

Greater than 8,000 mg/kg LD50 oral-rat

Antifoam/defoamer:

TOXICITY DATA:

Greater than 10,000 mg/kg LD50 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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