

MATERIAL SAFETY DATA SHEET

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

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SUBSTANCE: LUBRIPLATE Syn-H1-220

TRADE NAMES/SYNONYMS:

NSF H-1 REGISTRATION NUMBER: 138317

PRODUCT USE: Synthetic lubricating oil

CREATION DATE: 04/04/2008

REVISION DATE: 03/05/2009

SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Polyalkylene glycol

CAS NUMBER: NA

EC NUMBER (EINECS): NA

PERCENTAGE: 95-100

COMPONENT: Additives

CAS NUMBER: NA

EC NUMBER (EINECS): NA

PERCENTAGE: 0-5

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. Remove contact lenses, if worn. If irritation persists, consult a physician.

INGESTION: If a large quantity (several ounces) has been swallowed, and if patient is fully conscious, give two glasses of water. Induce vomiting. This should only be done by medical or experienced first-aid personnel. Obtain medical attention.

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 and breathing equipment.

HAZARDOUS COMBUSTION PRODUCTS:

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

UNUSUAL FIRE AND EXPLOSION HAZARDS: Do not direct a solid stream of water or foam into hot, burning pools; this may cause frothing and increase fire intensity.

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

GENERAL HANDLING: Avoid contact with skin and clothing. Avoid breathing vapor, aerosol, and mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling.

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: None established by OSHA, ACGIH, or UCC.

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 (polyvinyl chloride coated) 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: pale yellow

PHYSICAL FORM: oil

ODOR: mild odor

BOILING POINT: >200 C

FREEZING POINT (Pour point): -33 C

FLASH POINT: 288 C (COC)

LOWER FLAMMABLE LIMIT: Not determined

UPPER FLAMMABLE LIMIT: Not determined

AUTO IGNITION: Not available

VAPOUR PRESSURE: <0.01 mm Hg

VAPOR DENSITY (air=1): >1

SPECIFIC GRAVITY (water=1): 1.004

DENSITY: not available

WATER SOLUBILITY: <0.02% at 20 C

pH: not available

VOLATILITY: not available

ODOR THRESHOLD: not available

EVAPORATION RATE: <0.01 (Butyl acetate=1)

VISCOSITY: 40.7 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: Normally unreactive; however, avoid strong bases at high temperatures, strong acids, strong oxidizing agents and materials with hydroxyl compounds.

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

Polyalkylene glycol

TOXICITY DATA:

No data available

Additives:

TOXICITY DATA:

No data available

SECTION 12 ECOLOGICAL INFORMATION

Toxicity to Micro-organisms:

Bacterial/NA; 16 h; IC50

Toxicity to Aquatic Invertebrates:

Daphnia; 48 h; EC50

Result Value: 350 mg/L

Toxicity to Fish:

Fathead minnow; 96 h; LC50

Result Value: 520 mg/L

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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