

**MATERIAL SAFETY DATA SHEET**

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

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**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 Syn Lube HD 220**

**TRADE NAMES/SYNONYMS:**

**NSF H-2 Registration Number: 139841**

**PRODUCT USE: Synthetic lubricating oil**

**CREATION DATE: 06/12/2008**

**REVISION DATE: 03/04/2009**

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**SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS**

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

**COMPONENT: Di tri decyl adiapate**  
**CAS NUMBER: 16958-92-2**  
**EC NUMBER (EINECS): 241-029-0**  
**PERCENTAGE: 5-10**

**COMPONENT: Sulfurized hydrocarbon**  
**CAS NUMBER: 68511-50-2**  
**EC NUMBER (EINECS): 270-943-2**  
**PERCENTAGE: 0-2**

**NOTE: The IP 346 value of the mineral oil is less than 3%**

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**SECTION 3 HAZARDS IDENTIFICATION**

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**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**

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#### SECTION 4 FIRST AID MEASURES

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**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.

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#### SECTION 5 FIRE FIGHTING MEASURES

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**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.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

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**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.

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**SECTION 7 HANDLING AND STORAGE**

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**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.

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**SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**EXPOSURE LIMITS:**

**White mineral oil:**

**MINERAL OIL MIST:**

5 mg/m<sup>3</sup> UK OES TWA

10mg/m<sup>3</sup> 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.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

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**PHYSICAL STATE:** liquid

**APPEARANCE:** clear

**COLOUR:** water-white

**PHYSICAL FORM:** oil

**ODOR:** odorless

**BOILING POINT:** >288 C

**FREEZING POINT:** Not available

**FLASH POINT:** 282 C (COC)

**LOWER FLAMMABLE LIMIT:** 0.9% by volume

**UPPER FLAMMABLE LIMIT:** 7.0% by volume

**AUTO IGNITION:** 304 C (COC)  
**VAPOUR PRESSURE:** <0.01 mm Hg  
**VAPOR DENSITY (air=1):** >5  
**SPECIFIC GRAVITY (water=1):** 0.8571  
**DENSITY:** not available  
**WATER SOLUBILITY:** negligible  
**pH:** not available  
**VOLATILITY:** not available  
**ODOR THRESHOLD:** not available  
**EVAPORATION RATE:** <0.01 (Butyl acetate=1)  
**VISCOSITY:** 24.7 mm<sup>2</sup>/s @ 100 C  
**COEFFICIENT OF WATER/OIL DISTRIBUTION:** not available

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## SECTION 10 STABILITY AND REACTIVITY

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**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.

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## SECTION 11 TOXICOLOGICAL INFORMATION

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**Polyalphaolefin:**

**TOXICITY DATA:**

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

**Di tri decyl adipate:**

**TOXICITY DATA:**

No data available

**Sulfurized hydrocarbon:**

**TOXICITY DATA:**

Greater than 5 g/kg LD50 oral-rat

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## SECTION 12 ECOLOGICAL INFORMATION

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Not available

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SECTION 13 DISPOSAL CONSIDERATIONS

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Dispose in accordance with all applicable regulations

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SECTION 14 TRANSPORT INFORMATION

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**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.

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SECTION 15 REGULATORY INFORMATION

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EUROPEAN REGULATIONS:

EC CLASSIFICATION (CALCULATED): Not classified as dangerous.

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SECTION 16 OTHER INFORMATION

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