



**LPS LABORATORIES**  
**MSDS**  
**MATERIAL SAFETY DATA SHEET**

**Section 1 - Product Identification and Use**

**Manufacturer's Name:**

LPS Laboratories

**Trade Name:**

LPS ChainMate Chain & Wire Rope Lubricant

**Street Address:**

4647 Hugh Howell Road

**Chemical Family:**

Aliphatic and Oxygenated Hydrocarbons

**City, State, Zip:**

Tucker, GA 30085-5052

**Part Numbers:**

02416

**Telephone Number:** 770-934-7800

**Emergency Telephone Number:** 1-800-424-9300 Chemtrec

**Outside U.S.:** (703) 527-3887

**Hazardous Materials Description and proper shipping name (49 CFR 172.101):**

Compound, Boiler, Preserving Liquid

NMFC 50093 SUB 2 BRL/BXS CL55 CONSUMER COMMODITY ORM-D

**TSCA Inventory:**

All of the ingredients are listed on the TSCA inventory.

**HMIS Labeling:**

**Health:** 1

**Flammability:** 3

**Reactivity:** 0

**Section 2 - Hazardous Ingredients / Identity Information**

<b>Ingredients</b>	<b>CAS Numbers</b>	<b>%WW</b>	<b>OSHA PEL</b>	<b>ACGIH TLV</b>	<b>OTHER LIMITS</b>
Isohexane	107-83-5	30-40	500 ppm	500 ppm	1,000 ppm STEL
Isopropyl Alcohol;					
Isopropanol	67-63-0	3-5	400 ppm	400 ppm	500 ppm STEL
n-Hexane	110-54-3	1-2	50 ppm	50 ppm	-
Petroleum Oil					
(severely hydro-treated)	64742-01-4	40-50	5 mg/m3*	5 mg/m3*	10/mg/m3* STEL
Molybdenum Disulfide	1317-33-5	2-3	15 mg/m3**	N.E.	None
Isobutane/Propane					
Propellant	68476-85-7	15-20	1,000 ppm	N.E.	None
* Oil Mist					
** Nuisance dust					

**Section 3 - Physical / Chemical Characteristics**

<b>Boiling point (F°):</b>	141°	<b>Specific gravity (H2O = 1):</b>	0.79
<b>Vapor pressure @ 68°F:</b>	40-50 PSIG	<b>Percent volatile by volume (%):</b>	50%
<b>Vapor density (Air = 1):</b>	Approx. 3.0	<b>Evaporation rate (Ethyl Ether = 1):</b>	<1
<b>Solubility in water:</b>	<5%	<b>Appearance/Odor:</b>	Gray, black liquid with mild alcohol odor.

N.E. = Not established  
N.A. = Not applicable

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## Section 4 - Fire and Explosion Hazard

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**Flash point (method used):** N.E. (aerosol package)      **Flammable limits:** LEL = N.E.      UEL = N.E.

**Extinguishing media:** Foam, Carbon Dioxide, Dry Chemical.

**Firefighting procedures:** Wear self-contained breathing apparatus approved by NIOSH. Use water to keep containers cool.

**Unusual fire and explosive hazards:** Intense heat created by fire will cause aerosols to burst. Flammable vapors which are heavier than air may accumulate in low areas and/or spread along the ground away from handling site.

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## Section 5 - Health Hazard Data

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**Primary route(s) of entry:** Eyes, inhalation, skin.

**Health hazard/effects of over exposure:**

**Eyes:** Vapor and liquid may cause irritation.

**Skin:** Prolonged or repeated contact may cause drying of skin. Can be absorbed through skin.

**Inhalation:** Headache, light headedness, giddiness, central nervous system depression. May irritate mucosal tissue at high concentration.

**Ingestion:** Unlikely route of exposure. However, minute amounts aspirated into lungs during ingestion may cause chemical pneumonia.

**Medical conditions aggravated by exposure:** Pre-existing respiratory disorders.

**Chemicals listed as potential carcinogen:** NTP: No      IARC: No      OSHA: No

**Emergency and first aid procedures:**

**Eyes:** Flush with plenty of cold water and contact physician.

**Skin:** Wash with soap and water; apply medicated skin cream.

**Inhalation:** Move to fresh air and contact physician. Give oxygen if indicated.

**Ingestion:** Do not induce vomiting. Contact physician immediately.

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## Section 6 - Reactivity Data

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**Stability:** Stable      **Conditions to avoid:** Open flames, electric arcs and other hot surfaces which may cause thermal decomposition.

**Incompatibility (Materials to avoid):** Oxygen and strong oxidizing agents.

**Hazardous decomposition products:** Carbon monoxide, carbon dioxide, if burned.

**Hazardous polymerization:** Will not occur.

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## Section 7 - Precautions for Safe Handling and Use

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**Steps to be taken when material is released or spilled:** Evacuate area and ventilate. Remove leaking container and transfer remaining product to another vessel. Mop or soak up spill with absorbent material and transfer to disposal drums using non-sparking equipment. Store in closed containers. Do not flush product to sewer.

**Waste disposal methods:** Dispose of in accordance with federal, state and local regulations for flammable hydrocarbons.

**RCRA Hazardous Waste No.:** This material has the RCRA characteristic of ignitability and if discarded in its purchased form, would have the hazardous waste number D001.

**CERCLA Reportable Quantity:** 5000 lbs.

**SARA TITLE III Chemicals:** Yes. CAS #110-54-3.

**Precautions to be taken in handling and storage:** Store aerosols below 120°F and above 32°F. Store away from ignition sources and avoid breathing vapors and prolonged skin contact. Vapors will collect in low areas. Use and store with adequate ventilation.

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## Section 8 - Control Measures

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**Respiratory Protection:** None required if good ventilation is maintained. If vapor concentration rises above TLV, use NIOSH approved organic respirator or self-contained breathing apparatus.

**Ventilation:** Use adequate ventilation to maintain TLV and prevent accumulation of vapors in low lying areas.

**Protective Gloves:** Use solvent resistant gloves for liquid handling (Buna-N or Neoprene).

**Eye protection:** Goggles if splashing is likely.

**Other protective equipment:** None

**Work/hygienic practices:** Do not get in eyes, skin, or clothing. Remove contaminated clothing and launder before reuse.

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## Section 9 - Preparation Date of MSDS

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LPS Laboratories



Form # 2517

LPS Chain Mate Chain & Wire Rope Lubricant