



MATERIAL SAFETY DATA SHEET

LPS[®] Food Grade Silicone Lubricant

Revision 4

Revision Date: 12/9/08

Supersedes: 1/31/08

Section 1 • Product and Company Identification

Product Name: LPS[®] Food Grade Silicone Lubricant

Part Number: 01716, C01716

Chemical Name: Isohexane and silicone mixture

Product Use: A food grade industrial lubricant for rubber, plastic and metal parts.

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084

TEL: 1 770-243-8880

Emergency Telephone Number: 1-800-424-9300 Chemtrec;
Outside U.S.: (703) 527-3887

FAX: 1 770-243-8899

Website: <http://www.lpslabs.com>

PLAIN LANGUAGE HAZARD SUMMARY

Material Safety Data Sheets can be confusing. Federal and State laws require us to include a great deal of technical information that probably won't help the non-professional. LPS includes this "PLAIN LANGUAGE HAZARD SUMMARY" to address the questions and concerns of the average worker. If you have additional health, safety or product questions, don't hesitate to call us at 800/241-8334.

Worker Toxicity

LPS[®] Food Grade Silicone Lubricant is designed to provide fast-drying, thin-film lubrication to plastic and rubber surfaces that cannot tolerate hydrocarbons. It may also be used as a mold release or as a high-temperature, dry-film lubricant on metal components where silicone may be tolerated. It contains solvents that can be irritating to skin and eyes. We suggest you wear safety glasses and gloves and avoid extended exposure. Don't breathe large amounts of the vapor (it will dry out your nasal passages and if you breathe large amounts in poorly ventilated areas it can make you dizzy and even sick). Don't spray LPS[®] Food Grade Silicone Lubricant for extended periods without adequate ventilation. If you're going to perform work involving a lot of product in a poorly ventilated area, use of a respirator or a self-contained breathing apparatus. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS[®] Food Grade Silicone Lubricant is extremely flammable. Store product away from heat sources and do not spray into ignition sources (welding, grinding, pilot lights, live electric equipment, etc.). For additional information on flammability refer to sections 5, 9, and 16.

Disposal

If multiple cans of LPS[®] Food Grade Silicone Lubricant are ruptured, notify the proper environmental or safety department at your company right away. Never pour LPS[®] Food Grade Silicone Lubricant down a drain. See section 13 for additional information.



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Section 2 • Hazards Identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Emergency Overview: DANGER: Extremely Flammable. Eye Irritant. Vapor Harmful. Contents under pressure. Harmful or Fatal if Swallowed. Do not use on energized equipment.

Primary route(s) of entry: Skin and Eye contact. Inhalation.

Potential Acute Health Effects:

Eyes Irritating to eyes

Skin Repeated exposure may cause skin dryness or cracking. Liquid product may cause slight frostbite.

Inhalation: Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache.

Ingestion: Product has a low order of acute oral toxicity, but ingestion of large quantities may cause injury if aspirated into lungs.

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No OSHA: No ACGIH: No

Mutagenic Effects: None

Teratogenic Effects: This material (or component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to human is uncertain.

Target Organs:

Prolonged and repeated exposure to n-hexane may cause peripheral neuropathy by damaging peripheral nerve tissue (that of the arms and legs) and result in muscular weakness and loss of sensation. Prolonged and repeated inhalation of high levels of mixed isomers of hexane resulted in kidney damage in male rats. The effects observed are the same as those seen in male rats exposed to other hydrocarbons. The mechanism by which these chemicals cause the characteristic kidney toxicity is unique to the male rat and the kidney effects are not expected to occur in man.

Medical conditions aggravated by exposure:

Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.

Signs and Symptoms:

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Percent by Weight
Isohexane	107-83-5	60-70%
Propane/Isobutane Blend	68476-85-7	20-30%
n-hexane	110-54-3	1-3%



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Section 4 • First Aid Measures

- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. Do not use eye ointment. Seek medical attention immediately.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. Do not use ointments. Seek medical attention if irritation persists.
- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention immediately.

Section 5 • Fire Fighting Measures

Products of Combustion: Carbon monoxide and carbon dioxide.

Firefighting media: Use CO₂, DRY chemical powder, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, auto ignition or explosions.

Sensitivity to Impact: None. **Sensitivity to Static Discharge:** Yes.

Protection Clothing (Fire): Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles.

Special Remarks on Explosion Hazards: Containers may explode when heated and overwhelm sprinklers.

Section 6 • Accidental Release Measures

- | | | |
|-------------------------------|---|--|
| Containment Procedures | Small Spill and Leak: | Eliminate ignition sources. Absorb with an inert material and dispose of properly. |
| | Large Spill and Leak: | Eliminate ignition sources, secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal. |
| Clean-Up Procedures | Recover free product and place in suitable container for disposal. | |
| Evacuation Procedures | Ventilate area of leak or spill. Keep unnecessary and unprotected people away. | |
| Special Procedures | Remove all sources of ignition. Ventilate area. Wear appropriate protective equipment during cleanup. | |



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Section 7 • Handling and Storage

Handling: DO NOT spray into or around ignition sources. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists.

Storage: Keep container closed and in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F. *Store aerosols as Level 3 Aerosol (NFPA 30B).*

Precautions to be taken in handling and storage: Store all materials in dry, well-ventilated area. Avoid breathing vapors. Ground and bond containers before transferring materials.

Section 8 • Exposure Controls / Personal Protection

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEL	NIOSH REL
Isohexane	107-83-5	Not Established	Not Established	500 ppm	1000 ppm	Not Established
Propane / Isobutane Blend	68476-85-7	1,000 ppm	Not Established	1,000 ppm	Not Established	1000 ppm 1250 ppm Canada STEL
n-hexane	110-54-3	500 ppm	Not Available	Not Available	Not Available	50 ppm

Engineering Controls: Provide general and/or local exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protection:

Eyes: Safety goggles.

Respiratory: If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection.

Hands: Use nitrile gloves.

General Hygiene Considerations: Wash thoroughly after handling. Have eye-wash facilities immediately available.



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Section 9 – Physical and Chemical Properties

Appearance:	Liquid.	Color:	Clear, colorless
Odor/Taste:	Mild Ether-like	Evaporation Rate:	<1(Ethyl Ether =1)
Solubility Description:	Nil	Flash Point:	Not Applicable (aerosol)
Odour Threshold:	Not Determined.	Flash Point Method:	Not Applicable (aerosol)
Boiling Point:	61°C @ 1 atm.	Decomposition Temperature:	Not Determined.
Specific Gravity (Water=1):	0.64-0.66 @ 20°C	Auto Ignition Temperature:	306°C (869°F)
Vapor Density (air=1):	~3.0	Partition Coefficient (octanol/water):	>1
Vapor Pressure:	352 mmHg @ 38 °C	Percent Volatiles:	96%
pH:	Not applicable	Viscosity:	<14 mm ² /sec
Flammable limits (estimated):	LOWER: 1% UPPER: 6%	Melting Point (°C):	Not Applicable

Section 10 • Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Keep away from heat and ignition sources. Exposure to direct sunlight for extended periods. Temperatures in excess of 50°C.
Incompatibility:	Extremely reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur.



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Section 11 • Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

Following exposure to vapors, this material can produce central nervous system depression. High atmospheric concentrations can result in eye, nasal and respiratory tract irritation. However, if handled in accordance with good industrial hygiene practice, this product will not present a significant hazard in the workplace.

B: Acute Toxicity

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

Ingredients	CASRN	LC-50	LD-50	Neurotoxicity	Reproductive Toxicity
Isohexane	107-83-5	Not Established	Not Established.	Not Established.	Not Established.
Propane / Isobutane Blend	68476-85-7	Not Established	Not appropriate	Not Established.	Not Established.
n-hexane	110-54-3	150000 mg/m ³ /2H/rat	25 g/kg acute oral/ rat	At 190 ppm/8W may cause structural changes in human peripheral nerves.	Rodent/rat, 5000 pm/20H/ fetotoxicity RTECS MN9275000

Section 12 • Ecological Information

Ecological studies have not been conducted for this product. The following information is available for component(s) of this product.

Ecotoxicology:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	n-hexane	110-54-3	48-hr LC ₁₀₀	Leuciscus idus melanotus	260,000 µg/L
Acute Toxicity on Daphnia	n-hexane	110-54-3	24-hr LC ₅₀	Daphnia magna	50,000 µg/L
Bacterial inhibition	No Data Available				
Growth inhibition of algae	n-hexane	110-54-3	EC ₅₀	Anabaena inaequalis	1.70%
Bioaccumulation in fish	No Data Available				

Mobility: Semi-volatile. Readily absorbed into soil.

Persistence and degradability: Expected to biodegrade.

Bioaccumulative potential: Minimal bioaccumulation potential

Other adverse effects: None known.



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Section 13 • Disposal Considerations

- Waste Status:** Aerosol cans, if depressurized and emptied to less than 2.5 cm of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, this item carries waste code D001 and D003. (U.S.)
- Disposal:** Waste must be disposed of in accordance with national, regional, provincial, and local environmental control regulations.
- Note:** Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

Section 14 – Transport Information

D.O.T. Ground	Shipping Name:	Consumer Commodity	UN Number:	NA
	Hazard Class:	ORM-D	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D Already on box
Road/Rail - ADR/RID	UN no:	1950	ADR Class:	2
	Packing group:	NA	Classification code:	5F
	Name and Description:	Aerosols, flammable	Hazard ID no:	NA
	Labeling:	2.1		
IMDG-IMO	UN no:	1950	Class:	2.1
	Shipping Name:	AEROSOLS	Subsidiary Risk:	NA
	Packing Instructions:	P003, LP02	Packing group:	NA
	Marine pollutant:	NO	EmS:	F-D, S-U
IATA-ICAO	UN no:	1950	Class:	2.1
	Shipping Name:	AEROSOLS, Flammable	Subclass	NA
	Packing instructions:	203, Y203 (Ltd. Qty.)	Packing group:	NA
	Labeling:	Flammable Gas		



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Section 15 • Regulatory information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D001, D003

Comprehensive Environmental Response and Liability Act of 1980 (CERCLA): n-hexane 5000 lbs.

Toxic Substances Control Act (TSCA):

All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III

SARA Section 311/312 (40 CFR 370) Hazard Categories:

Sudden Release of Pressure, Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard.

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): n-hexane 110-54-3 max. 3%

Section 112 Hazardous Air Pollutants (HAPs): n-hexane

State Regulations

California: This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or reproductive harm.

California and OTC States: This product is not regulated by consumer regulations.

New Jersey Right to Know: Isohexane 107-83-5 • Propane-Isobutane Blend 68476-85-7 • Dimethylpolysiloxanes 63148-62-9 • n-Hexane 110-54-3 •

International Regulations

Canadian Environmental Protection Act: All of the components of this product are included on the Canadian Domestic Substances list (DSL).

Canadian Workplace Hazardous Materials Information System WHMIS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

WHMIS Classification:

Aerosol: Class A, Class B5, Class D2B



Other Regulations

Montreal Protocol listed ingredients:	None.
Stockholm Convention listed ingredients:	None.
Rotterdam Convention listed ingredients:	None.
RoHS Compliant:	Yes.



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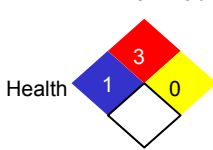
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Section 16 • Other Information

MSDS#11716 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996	HMIS III	NFPA Flammability 
	Health: 1	Health: [1]	
	Flammability: 3	Flammability: 4	
	Reactivity: 0	Physical Hazard: 2	

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.