



# MATERIAL SAFETY DATA SHEET

## LPS<sup>®</sup> Heavy Duty Silicone Lubricant

Revision Date: 5/20/10

Supersedes: 12/8/08

### Section 1 • Product and Company Identification

<b>Product Name:</b>	LPS <sup>®</sup> Heavy Duty Silicone Lubricant
<b>Part Number:</b>	01516 (aerosol), 01505, C01516 (aerosol), C01505
<b>Chemical Name:</b>	Petroleum Distillates
<b>Product Use:</b>	An industrial lubricant designed to reduce mechanical wear and to extend equipment life of machinery where rubber and plastics are involved and where silicone can be tolerated.
<b>Manufacturer Information:</b>	LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084
<b>TEL:</b>	1 770-243-8800
<b>Emergency Telephone Number:</b>	1-800-424-9300 Chemtrec; Outside U.S.: (703) 527-3887
<b>FAX:</b>	1 770-243-8899
<b>Website:</b>	<a href="http://www.lpslabs.com">http://www.lpslabs.com</a>

### 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<sup>®</sup> Heavy Duty Silicone Lubricant is an industrial chemical. It is a specialized lubricant designed to reduce mechanical wear and to extend equipment life of machinery where rubber and plastics are involved and where silicone can be tolerated. It contains "propane / butane" propellant (similar to gas grill fuel) and "isoparaffinic hydrocarbon" (a high purity naphtha) which can be irritating to skin after long periods of exposure. The aerosol is a pressurized container that can explode if exposed to sources of heat. We suggest you avoid extended exposure to unprotected skin. Don't get it in your eyes (it stings), or breath large amounts of the vapor. Don't spray LPS<sup>®</sup> Heavy Duty 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 self-contained breathing equipment may be required. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

#### Flammability

Because LPS<sup>®</sup> Heavy Duty Silicone Lubricant is a water-based emulsion, it has reduced flammability when sprayed into an ignition source. However, it uses "gas grill fuel" (propane/butane) as a propellant which is extremely flammable. Be aware of what is going on around you. Do not spray a lot of product if welding, grinding or other ignition sources are present in your immediate vicinity. DO NOT spray onto live electrical equipment.

#### Disposal

Spent or spilled LPS<sup>®</sup> Heavy Duty Silicone Lubricant should not be dumped down a drain. Spent aerosols aren't hazardous. Bulk liquid is not flammable or toxic per EPA regulations. Collect any spilled material and dispose of as "non-hazardous" waste – providing it isn't contaminated with toxic or flammable materials. See section 13 for more details.



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### Section 2 • Hazards Identification

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*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:

**Aerosol:** DANGER: Flammable. Contents under pressure. Harmful or Fatal if Swallowed.

**Bulk:** DANGER: Combustible. Harmful or Fatal if Swallowed.

**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.

**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 nausea, vomiting, and gastrointestinal irritation. May cause injury if aspirated into lungs.

#### Potential Chronic Health Effects:

**Carcinogenic Effects:** NTP: No IARC: No OSHA: No

**Mutagenic Effects:** None

**Teratogenic Effects:** None

**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.

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### Section 3 • Composition / Information on Ingredients

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Component	CASRN	Percent by Weight
Isoparaffinic Solvent	64742-48-9	10 – 25%
Propane / Isobutane Blend (aerosol only)	68476-85-7	10 – 20%

*The remaining ingredients in this preparation are classified as non-hazardous per the OSHA Hazard Communication Standard (29 CFR 1910.1200).*



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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 CO<sub>2</sub>, DRY chemical powder, water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosions.

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

**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:** Aerosols may explode upon heating, spread fire and overcome sprinkler systems.

### Section 6 • Accidental Release Measures

- |                               |                                                                                                       |                                                                                                                                                                                                                                                                                                              |
|-------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Containment Procedures</b> | <b>Small Spill and Leak:</b>                                                                          | Eliminate ignition sources. Absorb with an inert material and dispose of properly.                                                                                                                                                                                                                           |
|                               | <b>Large Spill and Leak:</b>                                                                          | 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. |
| <b>Clean-Up Procedures</b>    | Recover free product and place in suitable container for disposal.                                    |                                                                                                                                                                                                                                                                                                              |
| <b>Evacuation Procedures</b>  | Ventilate area of leak or spill. Keep unnecessary and unprotected people away.                        |                                                                                                                                                                                                                                                                                                              |
| <b>Special Procedures</b>     | 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 in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F.

**Precautions to be taken in handling and storage:** *Store aerosols as Level 1 Aerosol (NFPA 30B).* Store all materials in dry, well-ventilated area. Avoid breathing vapors.

### Section 8 • Exposure Controls / Personal Protection

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEEL	NIOSH REL
Isoparaffinic Hydrocarbon	64742-48-9	171 ppm* Supplier TWA	Not Established	Not Established	Not Established	Not Established
Propane / Isobutane Blend	68476-85-7	1,000 ppm	Not Established	1,000 ppm	Not Established	1000 ppm 1250 ppm Canada STEL

\*Supplier Data

**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

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<b>Appearance:</b>	Liquid.	<b>Color:</b>	Colorless / water-white
<b>Odor/Taste:</b>	Characteristic.	<b>Vapor Pressure:</b>	17.5 mmHg @ 20 °C
<b>Solubility Description:</b>	<75% by weight.	<b>Evaporation Rate:</b>	<1(Ethyl Ether =1)
<b>Boiling Point:</b>	100°C(212°F)	<b>Flash Point:</b>	62°C (144°F) bulk concentrate
<b>Specific Gravity : (Water=1)</b>	0.92-0.94 @ 20 °C	<b>Flash Point Method:</b>	Tag-Closed Cup.
<b>Vapour Density (air=1):</b>	~6.0	<b>Auto Ignition Temperature:</b>	>300°C (572°F)
<b>V.O.C. Content:</b>	Aerosol: 31.9%, 296 g/L, 2.5 #/gal. Bulk: 20.0%, 185 g/L, 1.6 #/gal.	<b>Partition Coefficient (octanol/water):</b>	<1
<b>Flammable limits (estimated):</b>	LOWER: 1.3% UPPER: 9.5%	<b>Viscosity:</b>	2500 - 3500 cps bulk only

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### Section 10 • Stability and Reactivity

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<b>Chemical Stability:</b>	Product is stable under recommended storage conditions.
<b>Conditions to Avoid:</b>	Keep away from heat and ignition sources. Exposure to direct sunlight for extended periods. Temperatures in excess of 50°C.
<b>Incompatibility:</b>	Extremely reactive or incompatible with oxidizing agents.
<b>Hazardous Decomposition:</b>	These products are carbon oxides (CO, CO <sub>2</sub> )
<b>Hazardous Polymerization:</b>	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.

Component	CASRN	LC-50	LD-50
Isoparaffinic Hydrocarbon	64742-48-9	Not available	>10 g/kg/oral * >3160mg/kg/dermal*
Propane / Isobutane Blend	68476-85-7	Not available	Not appropriate

\*Supplier Data

### Section 12 • Ecological Information

**Mobility:** Readily absorbed into soil. **Persistence and degradability:** Expected to biodegrade.

**Bioaccumulative potential:** No bioaccumulation potential. **Other adverse effects:** None known.

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

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	No Data Available				
Acute Toxicity on Daphnia	Isoparaffinic Hydrocarbon	64742-48-9	48-hour EC <sub>50</sub>	Daphnia magna	10-100 mg/L
Bacterial inhibition	No Data Available				
Growth inhibition of algae					
Bioaccumulation in fish					



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### Section 13 • Disposal Considerations

**Waste Status:** In its purchased form, the aerosol product is a RCRA hazardous waste carrying waste codes D001 and D003 (aerosols only). The bulk material (as received) is not classified as a hazardous waste.

**Disposal:** Waste must be disposed of in accordance with federal, state and local environmental control regulations. Recovered aerosol concentrate and bulk material are mixtures of water. Allow material to separate to appropriately dispose of each phase. Water will form the bottom phase.

**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

#### Aerosols

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

**Non-aerosol versions of this product are not regulated by any mode of transportation.**



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### Section 15 • Regulatory information

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#### U.S. Federal Regulations

**RCRA Hazardous Waste No.:** D001 (aerosols only) D003 (aerosols only)

**Comprehensive Environmental Response and Liability Act of 1980 (CERCLA):** none.

**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):** None

**Section 112 Hazardous Air Pollutants (HAPs):** None

#### 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 conforms to consumer regulations.

#### New Jersey Right to Know:

**Aerosol:** Water 7732-18-5 • Isoparaffinic Solvent 64742-48-9 • Propane/ Isobutane Propellant 68476-85-7 • Dimethyl Polysiloxane 63148-62-9 • Sorbitan Monooleate 1338-43-8

**Bulk:** Water 7732-18-5 • Isoparaffinic Solvent 64742-48-9 • Dimethyl Polysiloxane 63148-62-9 • Sorbitan Monooleate 1338-43-8

#### 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 D2B



**Bulk:** Class D2B





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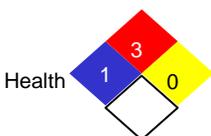
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### Other Regulations

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

### Section 16 • Other Information

MSDS#11516 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III		<b>NFPA</b> Flammability  Health      Reactivity
	Health:	1	Health:	[/]1	
	Flammability:	2	Flammability aerosol:	2	
			Flammability bulk:	2	
	Reactivity:	0	Physical Hazard aerosol:	2	
			Physical Hazard bulk:	0	

#### 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.

Clea L Johnson, Regulatory Affairs Coordinator  
 LPS Laboratories  
 A division of Illinois Tool Works