



# MATERIAL SAFETY DATA SHEET

## LPS<sup>®</sup> Chain Lubricant Food Grade

Revision Date: 1/4/2011

Supersedes: 7/16/2007

### Section 1 • Product and Company Identification

**Product Name:** LPS<sup>®</sup> Chain Lubricant Food Grade

**Part Number:** 06016, C06016

**Chemical Name:** Petroleum hydrocarbons

**Product Use:** A food grade chain lubricant for parts and equipment.

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

**TEL:** USA & Canada: 1 800 241-8334  
Outside USA and Canada 1 770-243-8800

**FAX:** USA & Canada: 1 800 543-1563  
Outside USA and Canada 1 770-243-8899

**Emergency Telephone Number:** Chemtrec: USA&Canada 1-800-424-9300  
Outside USA and Canada: +1 (703) 527-3887

**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 Chain Lubricant Food Grade is a food grade chain lubricant for parts and equipment. Don't get it on your skin or in eyes; short term contact can cause mild skin and eye irritation. Don't spray LPS Chain Lubricant Food Grade for extended periods without adequate ventilation. If you are going to spray a lot of this product in a poorly ventilated area, the 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

LPS Chain Lubricant Food Grade is flammable. Do not use on energized electrical equipment or equipment in operation and allow surface to dry before restart. Do not use near fire, flame or while smoking. Do not puncture, incinerate or store container above 120°F (49°C).

#### Disposal

LPS Chain Lubricant Food Grade is only available in aerosol form so a large scale spill(s) is very unlikely. However, if an aerosol fails to discharge its contents and has more than one inch of fluid in the bottom of the can, it is considered a hazardous waste under U.S. EPA guidelines. 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:** DANGER: Flammable. Contents under pressure. 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:** Not a likely route of exposure. 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 ACGIH: No

**Mutagenic Effects:** None known.

**Teratogenic Effects:** None known.

**Target Organ Effects:** None known.

**Medical conditions aggravated by exposure:** None from normal 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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Components	CASRN	Weight Percent
White Mineral Oil	8042-47-5	60 - 70%
Propane/Isobutane Blend	68476-85-7	15 - 25%
2-methylpentane	107-83-5	1-3%



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### Section 4 – First Aid Measures

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- 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.

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### Section 5 – Fire Fighting Measures

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**Products of Combustion:** Carbon monoxide and carbon dioxide.

**General Fire Hazards:** High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

**Firefighting media:** SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use CO<sub>2</sub>, water spray, fog or foam. Cool containing vessels with water 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:** Aerosols may explode upon heating, spread fire and overcome sprinkler systems.

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### Section 6 – Accidental Release Measures

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|-------------------------------|--|--|
| <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 ignition sources. 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. Do not allow material to come into contact with eyes or skin. Wear appropriate protective equipment during handling. Keep container closed. Do not breathe vapors or mists. Use only with adequate ventilation. Wash thoroughly after handling.

**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 3 Aerosol (NFPA 30B). Store all materials in dry, well-ventilated area. Avoid breathing vapors.

### Section 8 – Exposure Controls / Personal Protection

#### Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEL	NIOSH REL
White Mineral Oil	8042-47-5	5 mg/m <sup>3</sup> Oil Mist	Not Established	5 mg/m <sup>3</sup> Oil Mist	10 mg/m <sup>3</sup> Oil Mist	Not Established
Propane/Isobutane Blend	68476-85-7	1,000 ppm	Not Established	1,000 ppm	Not Established	1000 ppm TWA
2-methylpentane	107-83-5	500 ppm	1000 ppm	5000 ppm	1000 ppm	100 ppm TWA

\* Supplier recommendation

**Engineering Controls:** Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

#### Personal protective equipment

**Eye protection** Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

**Hand protection** Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, use chemical resistant gloves (i.e., nitrile) conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

**Respiratory protection** Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e., organic vapor cartridge).

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



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### Section 9 – Physical and Chemical Properties

<b>Appearance:</b>	Liquid	<b>Color:</b>	Clear, Colorless
<b>Odor:</b>	Mild hydrocarbon	<b>Evaporation Rate:</b>	~8.1 (BuAc=1)
<b>Solubility Description:</b>	Not Soluble in water	<b>Flash Point:</b>	-28.9C (-20F) dispensed liquid
<b>Boiling Point:</b>	174°C (345°F)	<b>Flash Point Method:</b>	TCC
<b>Specific Gravity (H<sub>2</sub>O=1):</b>	0.85 – 0.87 @ 20°C	<b>Decomposition Temperature:</b>	Not Established
<b>Vapor Density (air = 1):</b>	~3	<b>Auto ignition temperature:</b>	>265°C(509°F)
<b>Vapor Pressure:</b>	2782 mmHg @ 20°C	<b>Flammable limits (estimated):</b>	LOWER: 1.0% UPPER: 9.5%
<b>Rule 1171 PPc:</b>	Not Applicable	<b>Partition Coefficient (octanol/water):</b>	Not Established
<b>V.O.C. Content:</b>	Aerosol: 19%, 164 g/L, 1.4 lb/gal Per CARB/OTC/EPA definition	<b>Odor Threshold:</b>	Not Established
<b>Melting Point:</b>	Bulk: Not Applicable Not Established	<b>Viscosity:</b>	164 cPs @ 25°C
<b>pH:</b>	Not Applicable	<b>Volatiles:</b>	15 – 20%
<b>Heat of combustion:</b>	> 30 kJ/g		

### Section 10 – Chemical Stability and Reactivity

<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

#### A: General Product Information

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.

#### B: Component Analysis

Component	CASRN	LC-50	LD-50
White Mineral Oil	8042-47-5	Not Established	Not Established
Propane/Isobutane Blend	68476-85-7	Not Established	Not Appropriate
2-methylpentane	107-83-5	>3125 ppm/rat/4hr	Not Established

### Section 12 – Ecological Information

**Mobility:** Semi-volatile. Readily absorbed into soil. **Persistence and degradability:** Only slightly biodegradable.

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

#### Ecotoxicology

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes					No Data Available
Acute Toxicity on Daphnia					
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					

### 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.). However, if disposed of in its received form, an aerosol carries waste code 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.



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### Section 14 – Transportation Information

D.O.T. Ground	Shipping Name:	ORM-D	UN no:	NA
	Hazard Class:	NA	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D Already on box
	Packing group:	NA		
Road/Rail - ADR/RID	UN no:	1950	ADR Class:	2.1
	Packing group:	NA	Classification code:	5F
	Name and Description:	Aerosols, Flammable	Hazard ID no:	NA
	Labeling:	2.1	Technical Name:	NA
IMDG-IMO	UN no:	1950	Class:	2.1
	Shipping Name:	Aerosols	Subsidiary Risk:	NA
	Labeling:	2	Packing group:	NA
	Packing Instruction:	P003, LP02	EmS:	F-D, S-U
	Marine pollutant:	NO	Technical Name:	NA
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	Technical Name:	NA

### Section 15 – Regulatory Information

#### U.S. Federal Regulations

RCRA Hazardous Waste No.: 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 (aerosols only), 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): No individual section 313 component is present at or above 1%

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:

White Mineral Oil 8052-47-5 • Polybutene 9003-29-6 • Propane/Isobutane 68476-86-8 • 2-Methylpentane 107-83-5 • 3-Methylpentane 96-14-0



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### 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:

**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.

### Section 16 • Other Information

MSDS# 16016 MSDS Preparation Responsible Name: Clea George Regulatory Affairs Coordinator Telephone: +1 770 243-8800	HMIS 1996		HMIS III		<b>NFPA</b> Flammability  Health      1      3      0      Reactivity
	Health:	1	Health:	[/]1	
	Flammability:	3	Flammability: aerosol	4	
			Flammability: bulk	NA	
		Physical Hazard: aerosol	2		
Reactivity	0	Physical Hazard: bulk	NA		

### 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.