



MATERIAL SAFETY DATA SHEET

LPS[®] Magnum Premium Lubricant with PTFE

Revision 5

Revision Date: 10/2/08

Supercedes: 9/24/08

Section 1 • Product and Company Identification

Product Name:	LPS [®] Magnum Premium Lubricant with PTFE
Part Number:	00616 (aerosol), 00605, C00616 (aerosol), C00605
Chemical Name:	Petroleum Distillates
Product Use:	A specialized lubricant designed to reduce friction, heat, noise, and wear between moving parts, and to loosen rusted or immovable parts and mechanisms.
Manufacturer Information:	LPS Laboratories, 4647 Hugh Howell Rd., Tucker, GA, USA 30084
TEL:	1 770-243-8800
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[®] Magnum Premium Lubricant with PTFE is an industrial chemical. It is a specialized lubricant designed to reduce friction, heat, noise, and wear between moving parts, and to loosen rusted or immovable parts and mechanisms. It contains petroleum distillates and mineral oil that can be irritating to skin. Avoid extended exposure to unprotected skin. Don't get it in your eyes (it stings), or breath the vapor (if working on hot surfaces or heated tanks). Vapors from heated LPS[®] Magnum Premium Lubricant with PTFE can make you dizzy and even sick. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS[®] Magnum Premium Lubricant with PTFE is combustible having a flash point above 170°F and an autoignition temperature over 400°F. Under normal use conditions flammability isn't a concern, but don't apply the product onto red-hot metal surfaces or near sparks.

Disposal

LPS[®] Magnum Premium Lubricant with PTFE in non-aerosol form is not hazardous for disposal; however, if it becomes contaminated with another substance, the resulting mixture may fall under a hazardous classification. See section 13 for more details.



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Section 2 • Hazards Identification

This preparation 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.

Section 3 • Composition / Information on Ingredients

Component	CASRN	Percent by Weight
Aliphatic Hydrocarbon	64742-47-8	40 - 50%
Petroleum Oil	64742-52-5	30 - 40%
Dipropylene Glycol Monomethyl Ether	34590-94-8	2 - 3%
Carbon Dioxide Propellant (aerosol only)	124-38-9	1 - 4%
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	2 - 3%

*All remaining materials are not classified as "hazardous" per 29 CFR 1900.1200 Subpart Z



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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, 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

Small Spill and Leak: Absorb with an inert material and dispose of properly.

Large Spill and Leak: For large spills, 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.

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



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Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEEL	NIOSH REL
Aliphatic Hydrocarbon	64742-47-8	100 ppm* Supplier TWA	Not Established	Not Established	Not Established	Not Established
Petroleum Oil	64742-52-5	Not established	Not Established	5mg/m ³ (Oil Mist)	10 mg/m ³ (Oil Mist)	Not Established
Dipropylene glycol monomethyl ether	34590-94-8	100 ppm	Not Established	100 ppm	150 ppm	Not Established
Carbon Dioxide propellant (aerosol only)	124-38-9	10,000 ppm	30000 ppm	5000 ppm	30000 ppm	5000 ppm TWA 30000 ppm STEL
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Not established	Not Established	5mg/m ³ (Oil Mist)	10 mg/m ³ (Oil Mist)	Not Established

* Supplier Recommendation

Engineering measures 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 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

Appearance:	Liquid.	Color:	Brown
Odour/Taste:	Petroleum / Cherry	Vapor Pressure:	<0.05mmHg @ 20 °C
Solubility Description:	<4%	Evaporation Rate:	<0.1(BuAc=1)
Boiling Point:	195°C(383°F)	Flash Point:	79°C (175°F)
Specific Gravity (Water=1):	0.85-0.87 @ 20 °C	Flash Point Method:	Tag-Closed Cup.
Vapor Density (air=1):	4.7	Auto Ignition Temperature:	>228°C(442°F)
V.O.C. Content:	3.0%, 0.2 #/gal, 26 g/L (bulk) 2.9%, 0.2 #/gal, 25 g/L (aerosol)	Partition Coefficient (octanol/water):	<1
Flammable limits (estimated):	LOWER: 0.6% UPPER: 7%	Viscosity:	<7 centistokes @ 25°C
pH:	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.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	These products are carbon oxides (CO, CO ₂)
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.

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

Ingredients	CASRN	LC-50	LD-50
Aliphatic Hydrocarbon	64742-47-8	>6.8 mg/L	>5 g/kg
Petroleum Oil	64742-52-5	Not established	Not established
Dipropylene glycol monomethyl ether	34590-94-8	Not established	Oral Rat 5400 µL/kg; Dermal Rabbit: 10 mL/kg
Carbon Dioxide (aerosol only)	124-38-9	Not established	Not established
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	Not established	Not established

Section 12 • Ecological Information

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

Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Aliphatic Hydrocarbon	64742-47-8	96-hour LC ₅₀	Oncorhynchus mykiss	2900 µg/L
			4-day LC ₅₀	Lepomis macrochirus	2200 µg/L
	Dipropylene glycol monomethyl ether	34590-94-8	96-hour EC ₅₀	Pimephales promelas	>10000 mg/L
Acute Toxicity on Daphnia	Dipropylene glycol monomethyl ether	34590-94-8	48-hour EC ₅₀	Daphnia magna	1919 mg/L
Bacterial inhibition	No Data Available				
Growth inhibition of algae					
Bioaccumulation in fish					



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For the 64742-47-8 component, no toxicity has been observed in water due to extremely low water solubility. If material is spilled on soil, some potential toxic effects could occur before biodegradation could remove material.

If spilled, the 64742-52-5 and 64741-88-4 constituents may kill grasses and small plants by interfering with transpiration. Spilled material may coat gill structures of fish resulting in suffocation if spilled in shallow, running water. This product may be toxic to amphibians by preventing dermal respiration. This product may also cause gastrointestinal distress to birds and mammals through ingestion. Biodegradation of this product is possible within 90 to 120 days in aerobic environments at temperatures above 21°C.

Section 13 • Disposal Considerations

- Waste Status:** In its purchased form, non-aerosol material does not meet the definition of a RCRA hazardous waste. However, full aerosols are a RCRA hazardous waste carrying waste code D003.
- Disposal:** Waste must be disposed of in accordance with federal, state 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

Aerosol

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:	2.2
	Shipping Name:	Aerosols, flammable	Subclass	NA
	Packing instructions:	203, Y203 (Ltd. Qty)	Packing group:	NA
	Labeling:	Flammable Gas		

Bulk

Non-Aerosols of this product are not regulated by any mode of transportation.



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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:

New Jersey RTK:

Aerosol: Aliphatic Hydrocarbon 64742-47-8 • Petroleum Oil 64742-52-5 • Petroleum Oxidate Ester 68602-85-7 • Calcium Dinonylnaphthalene Sulfonate 57855-77-3 • Dipropylene Glycol Monomethyl Ether 34590-94-8 • Carbon Dioxide 124-38-9 • Dibasic Fatty Acid 61788-89-4

Bulk: Aliphatic Hydrocarbon 64742-47-8 • Petroleum Oil 64742-52-5 • Petroleum Oxidate Ester 68602-85-7 • Calcium Dinonylnaphthalene Sulfonate 57855-77-3 • Dipropylene Glycol Monomethyl Ether 34590-94-8 • Dibasic Fatty Acid 61788-89-4

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



WHMIS Classification: Bulk
Class B3, Class D2B





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Other Regulations

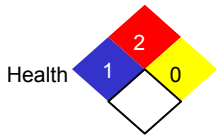
Montreal Protocol listed ingredients: None.

Stockholm Convention listed ingredients: None.

Rotterdam Convention listed ingredients: None.

RoHS Compliant: Yes.

Section 16 • Other Information

MSDS#10616 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III		NFPA Flammability  Health 1 2 0 Reactivity
	Health:	1	Health:	[] 1	
	Flammability:	2	Flammability aerosol:	4	
			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