



MATERIAL SAFETY DATA SHEET

LPS 3[®] (Bulk)

Revision Date: March 22, 2011

Supersedes: November 17, 2010

Section 1 – Identification

Product Name: LPS 3[®] (Bulk)

Part Number(s): 00322, 03128, 00305, 00355, C00322, C03128, C00305, C00355

Chemical Name: Petroleum Hydrocarbons

Product Use: A specialized soft-film coating designed to prevent rust and corrosion on steel, aluminum and other metals.

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 3[®] is an industrial chemical. It is a specialized soft-film coating designed to prevent rust and corrosion on steel, aluminum and other metals. It contains mineral spirits and mineral oil which can be irritating to skin at a minimum and if handled improperly can be dangerous. We suggest you wear gloves and avoid extended exposure to unprotected skin. Don't get it in your eyes (it stings) or breath 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 use LPS 3[®] 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

LPS 3[®] is combustible, having a flash point between 40°C - 45°C (104°F- 113°F). Under normal use conditions flammability is not a concern but do not use the product near or around ignition sources.

Disposal

If you spill LPS 3[®], notify the proper environmental or safety department at your company right away. If LPS 3[®] becomes contaminated with another substance and is rendered unusable for protecting metal items from rust, the resulting mixture may fall under a hazardous classification. See section 13 for more details.



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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:

Aerosol: Not applicable

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. In extreme cases (overexposure in a confined space for example), the vapors of the solvent portion can cause disorientation, difficulty with breathing, unconsciousness, coma and even death depending upon the level of overexposure and duration. 20,000 ppm of the solvent portion of this product in air can cause death to humans in 5 to 10 minutes.

Ingestion: Product has a low order of acute oral toxicity, but ingestion of large quantities will cause central nervous system depression 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

Teratogenic Effects: None

Target Organs: 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

Component	CASRN	Weight Percent
Distillates (Petroleum), Hydrotreated Light	64742-47-8	60 - 70%
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	5 - 10%
Propylene Glycol Mono-n-butyl Ether	5131-66-8	5 - 10%
Dipropylene Glycol Mono Butyl Ether	29911-28-2	1 - 5%
Light Mineral Spirits / Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic	8052-41-3 or 64742-88-7	1 - 5%

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.

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 CO₂, 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: None



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Section 6 – Accidental Release Measures

Containment Procedures	<p>Small Spill and Leak: Eliminate ignition sources. Absorb with an inert material and dispose of properly.</p> <p>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.</p>
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. Be aware of spilled material on walking surfaces – this product is slippery.

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. Avoid breathing 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 between 40°F and 120°F (4.4°C and 49°C).

Precautions to be taken in handling and storage: Keep container in a cool, 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
Distillates (Petroleum), Hydrotreated Light	64742-47-8	Not Established	Not Established	Not Established	Not Established	Not Established
Distillates (Petroleum), Hydrotreated Heavy Paraffinic	64742-54-7	Not Established	Not Established	Not Established	Not Established	Not Established
Propylene Glycol Mono-n-butyl Ether	5131-66-8	50 ppm*	Not Established	Not Established	Not Established	Not Established
Dipropylene Glycol Mono Butyl Ether	29911-28-2	10 mg/m ³ *	Not Established	Not Established	Not Established	Not Established
Light Mineral Spirits / Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic	8052-41-3 or 64742-88-7	500 ppm	Not Established	100 ppm	Not Established	350 mg/m ³ TWA 1800 mg/m ³ CL

* Supplier Recommendation



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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 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.

Section 9 – Physical and Chemical Properties

Appearance:	Liquid	Color:	Hazy Brown
Odor:	Mild Cherry	Evaporation Rate:	151 (Ethyl Ether=1)
Solubility Description:	Negligible	Flash Point:	40°C-45°C (104°F- 113°F)
Boiling Point:	179°C (354°F)	Flash Point Method:	Tag-Closed Cup.
Specific Gravity (H₂O=1):	0.81-0.83 @ 20°C	Decomposition Temperature:	Not Established
Vapor Density (air = 1):	5.48	Auto Ignition Temperature (°C):	246°C (469°F)
Vapor Pressure:	>1.0 mm Hg @ 20°C	Flammable limits (estimated):	LOWER: 1.0% UPPER: 7.0%
Rule 1171 PPc:	Not Applicable	Partition Coefficient (octanol/water):	Not Established
V.O.C. Content:	Aerosol: Not Applicable Bulk: 73.5%, 603 g/L, 5.0 lb/gal per CARB/OTC/EPA	Odor Threshold:	Not Established
Melting Point:	Not Established	Viscosity:	200- 400 cPs @ 25°C
pH:	Not Applicable	Volatiles:	70 - 80%
Heat of combustion:	Aerosol: Not Applicable Bulk: Not Established		



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Section 10 – Chemical 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:	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.

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
Distillates (Petroleum), Hydrotreated Light	64742-47-8	21400 mg/m ³ / rat / 4hr*	>8000 mg/kg / oral / rat* 15400 mg/kg / dermal / rabbit*
Distillates Petroleum Hydrotreated Heavy Paraffinic	64742-54-7	Not established	>5000 mg/kg / oral / rat* >5000 mg/kg dermal / rabbit / 24hr*
Propylene Glycol Mono-n-butyl Ether	5131-66-8	Not Established	2124-2700 mg/kg / oral / female rat 2612-5500 mg/kg / oral / male rat
Dipropylene Glycol Mono Butyl Ether	29911-28-2	>2.04 mg/L / rat / 4hr*	3700 – 4400 mg/kg / oral / rat* 5330 – 6490 mg/kg / dermal / rabbit*
Light Mineral Spirits / Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic	8052-41-3 or 64742-88-7	>5500 mg/m ³ / rat / 4hr	>5000 mg/kg / oral / rat >3000 mg/kg / dermal / rat

*Supplier Data

Component 64742-47-8 is a mild skin and respiratory tract irritant. Human volunteers exposed to an airborne concentration of 400 ppm experienced no ill effects. Saturated vapors in air (or AP 8,200 mg/m³) are below the LC₅₀ levels in rats.

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:	See below

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



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Ecotoxicity:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Distillates (Petroleum), Hydrotreated Light	64742-47-8	96-hr LC ₅₀	Oncorhynchus mykiss	3200 µg/L*
	Dipropylene Glycol Mono Butyl Ether	29911-28-2	96-hr LC ₅₀	Poecilia reticulata	841 mg/L*
	Propylene Glycol Mono-n-butyl Ether	5131-66-8	96-hr LC ₅₀	Poecilia reticulata	560 - 1000 mg/L*
Acute Toxicity on Daphnia	Dipropylene Glycol Mono Butyl Ether	29911-28-2	LC ₅₀	Daphnia	>1000 mg/L*
	Propylene Glycol Mono-n-butyl Ether	5131-66-8	LC ₅₀	Daphnia	>1000 mg/L*
Bacterial inhibition	No Data Available				
Growth inhibition of algae					
Bioaccumulation in fish					

*Supplier Data

For the 64742-47-8 component, no toxicity has been observed in water due to extremely low water solubility. However, hydrocarbon and petroleum distillates are potentially toxic to freshwater and saltwater ecosystems. If material is spilled on soil, some potential toxic effects could occur before biodegradation could remove material.

If spilled, the 64742-54-7 constituent 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.

Section 13 – Disposal Considerations

Waste Status: If disposed of in its received form, this product carries waste code(s) D001 (U.S.).

Disposal: Waste must be disposed of in accordance with national, regional 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:	Not Regulated	UN Number:	NA
	Hazard Class:	NA	Technical Name:	NA
	Subclass:	NA	Hazard Label:	NA
	Packing Group:	NA		
Road/Rail - ADR/RID	UN no:	1268	ADR Class:	3
	Packing group:	III	Classification code:	F1
	Name and Description:	Petroleum Distillates, n.o.s. mixture	Hazard ID no:	30
	Labeling:	3	Technical Name:	NA
IMDG-IMO	UN no:	1268	Class:	3
	Shipping Name:	Petroleum Distillates, n.o.s. mixture	Subsidiary Risk:	NA
	Labeling:	3	Packing group:	III
	Packing Instructions:	P001, LP01	EmS:	F-E, S-E
	Marine pollutant:	No	Technical Name:	NA
IATA-ICAO	UN no:	1268	Class:	3
	Shipping Name:	Petroleum Distillates, n.o.s. mixture	Subclass	NA
	Packing instructions:	Y344 (Ltd Qty), 355, 366 (CAO)	Packing group:	III
	Labeling:	Flammable Liquid	Technical Name:	NA

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.

Section 15 – Regulatory Information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D001

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:

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



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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:

Aerosol: Not Applicable

Bulk: Distillates (Petroleum), Hydrotreated Light 64742-47-8 • Calcium Sulfonate 26264-06-2 •

Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7 • Propylene Glycol Mono-n-butyl Ether 5131-66-8 •

Hydrotreated Microcrystalline Wax 64742-60-5 • Dipropylene Glycol Mono Butyl Ether 29911-28-2 •

Mineral Spirits 64742-88-7/8052-41-3

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: Bulk
Class B3, 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# 10322 MSDS Preparation Responsible Name: Clea George Regulatory Affairs Coordinator Telephone: +1 770 243-8800	HMIS 1996	HMIS III	NFPA Flammability Health  Reactivity Special
	Health: 1	Health: []1	
	Flammability: 2	Flammability: aerosol NA Flammability: bulk 2	
	Reactivity 0	Physical Hazard: aerosol NA 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. George, Regulatory Affairs Coordinator
LPS Laboratories, A division of Illinois Tool Works