



# MATERIAL SAFETY DATA SHEET

## LPS 3<sup>®</sup> Premier Rust Inhibitor Bulk

Revision 4

Revision Date: 9/26/08

Supercedes:3/19/07

### Section 1 – Identification

**Product Name:** LPS 3<sup>®</sup> Premier Rust Inhibitor

**Part Number:** 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:** 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 3<sup>®</sup> 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 "rule 66/3 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 spray LPS 3<sup>®</sup> 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<sup>®</sup> is flammable, having a flash point below 70oF. Under normal use conditions flammability isn't a concern, but don't spray 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:** 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. Symptoms include a burning sensation to the mouth and esophagus, nausea, vomiting, dizziness, staggering gait, drowsiness, loss of consciousness, and other central nervous system effects. May cause injury if aspirated into lungs.

**Potential Chronic Health Effects:**

**Carcinogenic Effects:** NTP: No OSHA: No ACGIH: 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	Weight Percent
Aliphatic Hydrocarbon	64742-47-8	60 - 70%
Distillates Petroleum Hydrotreated Heavy Paraffinic	64742-54-7	5 – 10%
Light Mineral Spirits	64742-88-7	5 - 10%

*\*The remaining ingredients of this preparation are not classified as hazardous per 29 CFR 1920.1200 Subpart Z*



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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.

**Firefighting media:** SMALL FIRE: Use DRY chemical powder.  
LARGE FIRE: Use water spray, 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:** None.

**Protection Clothing (Fire):** wear protective clothing and equipment suitable for the surrounding fire, including helmet, face mask, and self-contained breathing apparatus.

**Special Remarks on Explosion Hazards:** High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers.

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### Section 6 – Accidental Release Measures

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**Containment Procedures** Contain and recover spilled liquid when possible.

**Clean-Up Procedures**

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

**Large Spill and Leak:** 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.

**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:** Eliminate ignition sources. All equipment used when handling this material must be grounded when fluid temperature exceeds 100°F. Avoid contact with eyes, skin and clothing. 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 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
Aliphatic Hydrocarbon	64742-47-8	500 ppm	Not Established	100 ppm	Not Established	Not Established
Distillates Petroleum Hydrotreated Heavy Paraffinic	64742-54-7	Not Established	Not Established	Not Established	Not Established	Not Established
Light Mineral Spirits	64742-88-7	500 ppm 2900 mg/m <sup>3</sup>	Not Established	100 ppm 525 mg/m <sup>3</sup>	Not Established	350 mg/m <sup>3</sup> 10-hr TWA 1800 mg/m <sup>3</sup> 15-min Ceiling

\* 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 (i.e., nitrile, neoprene, buna) 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>	Medium to Dark Brown
<b>Odor/Taste:</b>	Cherry	<b>Vapor Pressure:</b>	2.6 mmHg @ 20 °C
<b>Solubility Description:</b>	<0.1 %	<b>Evaporation Rate:</b>	0.2 (BuAc=1)
<b>Boiling Point:</b>	160°C (320°F)	<b>Flash Point:</b>	40°C-45°C (100°F- 113°F)
<b>Specific Gravity (Water=1):</b>	0.82-0.86	<b>Flash Point Method:</b>	Tag-Closed Cup.
<b>Vapour Density (air=1):</b>	4.8	<b>Auto Ignition Temperature (°C):</b>	Not Established
<b>V.O.C. Content:</b>	74.3%, 603g/L, 5 #/gal. per CARB Regulation	<b>Partition Coefficient (octanol/water):</b>	Not Established
<b>Flammable limits (estimated):</b>	LOWER: 0.6% UPPER: 7%	<b>Viscosity:</b>	200 – 600 cps @ 25°C
<b>pH:</b>	Not applicable	<b>Odor threshold</b>	Not Determined
<b>Melting Point</b>	Not Established	<b>Volatiles:</b>	70 - 75%
<b>Decomposition Temperature</b>	Not Established		

### 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.
<b>Incompatibility:</b>	Reactive or incompatible with oxidizing agents.
<b>Hazardous Decomposition:</b>	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
<b>Hazardous Polymerization:</b>	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
Aliphatic Hydrocarbon	64742-47-8	21400 mg/m <sup>3</sup> /rat/4H	34600 mg/kg/oral/rat 15400 mg/kg/dermal/rabbit
Distillates Petroleum Hydrotreated Heavy Paraffinic	64742-54-7	Not established	>5 g/kg oral/rat* >5 g/kg dermal/rabbit/24H*
Light Mineral Spirits	64742-88-7	Not established	Not established



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### Section 12 – Ecological Information

<b>Mobility:</b>	Semi-volatile. Readily absorbed into soil.	<b>Persistence and degradability:</b>	Only slightly biodegradable.
<b>Bioaccumulative potential:</b>	No bioaccumulation potential	<b>Other adverse effects:</b>	See below.

**Ecotoxicology:**

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Aliphatic Hydrocarbon	64742-47-8	96-hr LC <sub>50</sub>	Oncorhynchus mykiss	3200 ug/L
Acute Toxicity on Daphnia	No Data Available				
Bacterial inhibition					
Growth inhibition of algae					
Bioaccumulation in fish					

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:** This item carries waste code 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

#### Bulk

D.O.T. Ground	Shipping Name:	Not Regulated	UN Number:	NA
	Hazard Class:	NA	Technical Name:	NA
	Subclass:	NA	Hazard Label:	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
	Packing Instructions:	P001, LP01	Packing group:	III
	Marine pollutant:	NO	EmS:	F-E, S-E
IATA-ICAO	UN no:	1268	Class:	3
	Shipping Name:	Petroleum Distillates, n.o.s. mixture	Subclass	NA
	Packing instructions:	309, Y309 (Ltd. Qty.)	Packing group:	III
	Labeling:	Flammable Liquid		

#### NOTE

1-gallon containers of this product must be repacked according to IATA regulations for air shipment.

### 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

#### New Jersey RTK:

**Bulk:** Aliphatic Hydrocarbon 64742-47-8 • Hydrotreated Microcrystalline wax 64742-60-5 • Light Mineral Spirits 64742-88-7 • Distillates Petroleum Hydrotreated Heavy 64742-54-7 • Calcium Carbonate 471-34-1

**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.

### 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 Responsible Name: Clea Johnson Regulatory Affairs Coordinator	HMIS 1996		HMIS III		<b>NFPA</b> Flammability  Health      Reactivity
	Health:	1	Health:	[/]1	
	Flammability:	2	Flammability:	2	
	Reactivity	0	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 Johnson, Regulatory Affairs Coordinator  
LPS Laboratories, A division of Illinois Tool Works