



MATERIAL SAFETY DATA SHEET

LPS® 3 (Aerosol)

Revision Date: January 5, 2012

Supersedes: March 22, 2011

Section 1 • Product and Company Identification

Product Name: LPS® 3 (Aerosol)

Part Number(s): 00316, C30316

Chemical Name: Petroleum Hydrocarbons

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

Manufacturer Information: LPS Laboratories, 4647 Hugh Howell Road, 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>

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: DANGER: Flammable. Contents under pressure.

Bulk: Not applicable

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 ACGIH: No

Mutagenic Effects: None

Teratogenic Effects: None

Target Organs: None



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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 |
|---|-------------------------------|----------------|
| Distillates (Petroleum), Hydrotreated Light | 64742-47-8 | 45 - 55% |
| Dipropylene Glycol Monobutyl Ether | 29911-28-2 | 10 - 15% |
| Distillates (Petroleum), Hydrotreated Heavy Paraffinic | 64742-54-7 | 5 - 10% |
| Acetone | 67-64-1 | 1 - 5% |
| Propylene Glycol Monobutyl Ether | 5131-66-8 | 1 - 5% |
| Carbon Dioxide | 124-38-9 | 1 - 5% |
| Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic | 8052-41-3 or 64742-88-7 | 1 - 2% |

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.



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Section 5 • Fire Fighting Measures

- Products of Combustion:** Carbon monoxide and carbon dioxide.
- General Fire Hazards:** Do not use on energized equipment. 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 jet in order 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.

Section 6 • Accidental Release Measures

- Containment Procedures:**
- Small Spill and Leak:** Eliminate ignition sources. Absorb with an inert material and dispose of properly.
- 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.
- Clean-Up Procedures:** Recover free product and place in a 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 personal 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 in 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:**
Store aerosols as Level 3 Aerosol (NFPA 30B). Store all materials in a dry, well-ventilated area. Avoid breathing vapors.



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Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

| Component | CASRN | OSHA | ACGIH | NIOSH | Supplier |
|---|-------------------------------|---------------------------|---|--|------------------------------|
| Distillates (Petroleum), Hydrotreated Light | 64742-47-8 | 5 mg/m3 (oil mist) PEL | 5 mg/m3 (oil mist) TLV 10 mg/m3 (oil mist) STEL | 5 mg/m3 (oil mist) TWA 10 mg/m3 (oil mist) STEL | 100 ppm TWA 525 mg/m3 TWA |
| Dipropylene Glycol Monobutyl Ether | 29911-28-2 | Not established | Not established | Not established | 10 mg/m3 TWA (aerosol) |
| Distillates (Petroleum), Hydrotreated Heavy Paraffinic | 64742-54-7 | 5 mg/m3 (oil mist) | 5 mg/m3 (oil mist) TLV 10 mg/m3 (oil mist) STEL | 5 mg/m3 (oil mist) TWA 10 mg/m3 (oil mist) STEL | None reported |
| Acetone | 67-64-1 | 1000 ppm PEL | 500 ppm TLV 750 ppm STEL | 250 ppm TWA | None reported |
| Propylene Glycol Monobutyl Ether | 5131-66-8 | Not established | Not established | Not established | 50 ppm TWA |
| Carbon Dioxide | 124-38-9 | 5000 ppm PEL | 5000 ppm TLV 30000 ppm STEL | 5000 ppm TWA 30000 ppm STEL | None reported |
| Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic | 8052-41-3 or 64742-88-7 | 5 mg/m3 (oil mist) | 100 ppm TLV | 350 mg/m3 TWA | None reported |

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, wear 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: | Hazy brown |
| Odor: | Mild cherry | Evaporation Rate: | 151 (Ethyl Ether = 1) |
| Solubility Description: | 5% in water | Flash Point: | 23°C (73°F) - dispensed liquid |
| Boiling Point: | 153°C (307°F) | Flash Point Method: | Tag-Closed Cup |
| Specific Gravity (H₂O=1): | 0.84 - 0.87 @ 20°C | Decomposition Temperature: | Not established |
| Vapor Density (air = 1): | 4.8 | Auto ignition temperature: | > 230°C (446°F) - dispensed liquid |
| Vapor Pressure: | ~ 4860 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: 64.0% per State & Federal Consumer Product Regulations Bulk: Not applicable | Odor Threshold: | Not established |
| Melting Point: | Not established | Viscosity: | Not established |
| pH: | Not applicable | Volatiles: | 70 - 80% |
| Heat of combustion: | Aerosol: > 30 kJ/g Bulk: 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: | Extremely 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. |



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Section 11 • Toxicological Information

Acute and Chronic Toxicity

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 / 4 hr* | > 8000 mg/kg / oral / rat* |
| | | | 15400 mg/kg / dermal / rabbit* |
| Dipropylene Glycol Monobutyl Ether | 29911-28-2 | > 2.04 mg/L / rat / 4 hr* | 3700 - 4400 mg/kg / oral / rat* |
| | | | 5330 - 6490 mg/kg / dermal / rabbit* |
| Distillates (Petroleum), Hydrotreated Heavy Paraffinic | 64742-54-7 | Not established | > 15 g/kg / oral / rat* |
| | | | > 5 g/kg / dermal / rabbit* |
| Acetone | 67-64-1 | 16000 ppm / rat / 4 hr* | 5800 mg/kg / oral / rat* |
| | | | 20000 mg/kg / dermal / rabbit* |
| Propylene Glycol Monobutyl Ether | 5131-66-8 | Not established | 2124 - 2700 mg/kg / oral / female rat |
| | | | 2612 - 5500 mg/kg / oral / male rat |
| Carbon Dioxide | 124-38-9 | 470000 ppm / rat / 30 minutes | Not appropriate |
| Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic | 8052-41-3 or 64742-88-7 | > 5500 mg/m ³ / rat / 4 hr | > 5000 mg/kg / oral / rat > 3000 mg/kg / dermal / rat |

* Supplier Data

Component 64742-47-8 is a mild irritant and a 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 level in rats.



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Section 12 • Ecological Information

Mobility: Semi-volatile. Readily absorbed into soil. **Persistence / Degradability:** Only slightly biodegradable
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.

Ecotoxicity

| Effects on Organisms | Component | CASRN | Test | Species | Results |
|-----------------------------------|---|------------|------------|---------------------|------------------|
| Acute Toxicity on Fishes | Distillates (Petroleum), Hydrotreated Light | 64742-47-8 | 96-hr LC50 | Oncorhynchus Mykiss | 3,200 µg/L* |
| | Dipropylene Glycol Monobutyl Ether | 29911-28-2 | 96-hr LC50 | Poecilia Reticulata | 841 mg/L* |
| | Propylene Glycol Monobutyl Ether | 5131-66-8 | 96-hr LC50 | Poecilia Reticulata | 560 - 1000 mg/L* |
| Acute Toxicity on Daphnia | Dipropylene Glycol Monobutyl Ether | 29911-28-2 | LC50 | Daphnia Magna | > 1000 mg/L* |
| | Propylene Glycol Monobutyl Ether | 5131-66-8 | LC50 | Daphnia Magna | > 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: Aerosol cans, if depressurized and emptied to less than 1 inch (2.54 cm) of fluid contents, are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, the aerosol product carries the waste codes D001 and D003 (U.S.).

Disposal: Waste must be disposed of in accordance with any and all applicable environmental control rules and/or 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 • Transport Information

| | | | | |
|----------------------------|------------------------------|-----------------------|-----------------------------|----------------------|
| D.O.T. Ground | Shipping Name: | Consumer Commodity | UN No.: | NA |
| | Hazard Class: | ORM-D | 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 |
| | Shipping Name: | Aerosols | Subsidiary Risk: | 2.1 |
| | Labeling: | 2 | Packing Group: | NA |
| | Packing Instructions: | P003, LP02 | EmS: | F-D, S-U |
| 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 |

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, D003

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):
Acetone 67-64-1 5000 lbs

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):
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 other reproductive harm.

California and OTC States: This product is not regulated by Consumer Product Regulations. In California's SCAQMD, this product is intended for maintenance and repair operations only. When used in manufacturing, this product does not meet the requirements of SCAQMD's Rule 1144.



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New Jersey Right to Know:

Aerosol: Distillates (Petroleum), Hydrotreated Light 64742-47-8 • Dipropylene Glycol Monobutyl Ether 29911-28-2 • Calcium Sulfonate 61789-86-4 • Distillates (Petroleum), Hydrotreated Heavy Paraffinic 64742-54-7 • Hydrotreated Microcrystalline Wax 64742-60-5 • Acetone 67-64-1 • Propylene Glycol Mono-n-butyl Ether 5131-66-8 • Carbon Dioxide 124-38-9 • Stoddard Solvent 64742-88-7 / 8052-41-3
 Bulk: Not applicable

International Regulations

Canadian Environmental Protection Act (CEPA):

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



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#: 10316 MSDS Preparation Responsible Name: Elena Badiuzzi Compliance Manager Telephone: +1 770 243-8800 | HMIS 1996 | | HMIS III | | NFPA Flammability Health Reactivity Special |
|---|---------------|---|--------------------------|-------|--|
| | Health: | 1 | Health: | [] 1 | |
| | Flammability: | 3 | Flammability Aerosol: | 4 | |
| | | | Flammability Bulk: | NA | |
| | Reactivity: | 0 | Physical Hazard Aerosol: | 2 | |
| | | | 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.

Elena Badiuzzi, Compliance Manager
 LPS Laboratories, a division of Illinois Tool Works