



MATERIAL SAFETY DATA SHEET

LPS Electro 140°

Revision 6

Revision Date 4/16/2009

Supersedes: 2/5/2009

Section 1 • Product and Company Identification

Product Name: LPS Electro 140°

Part Number: 00916 (aerosol), 00922, 09128, 00905, 00955, C00916 (aerosol), C00922, C09128, C00905, C00955

Chemical Name: Petroleum hydrocarbons

Product Use: A high flash point, low-odor precision cleaning solvent.

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 ELECTRO 140° is designed for the removal of contaminants from a variety of substrates. It contains isoparaffinic hydrocarbon and an alcohol 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 ELECTRO 140° 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 even a self-contained breathing apparatus may be necessary. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS ELECTRO 140° is a combustible solvent, having a flash point of 144°F (62°C). Do not spray onto live electrical equipment or in or around ignition sources. Store product away from heat sources.

Disposal

If you spill LPS ELECTRO 140°, notify the proper environmental or safety department at your company right away. If LPS ELECTRO 140° becomes contaminated with another substance and is rendered unusable for cleaning, the resulting mixture will fall under at least one 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: 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
Isoparaffinic Hydrocarbon	64742-48-9	70-80%
3-methoxy-3-methylbutan-1-ol	56539-66-3	20-30%
Carbon dioxide (aerosol only)	124-38-9	1-5%



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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: 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): 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.



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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.

Section 8 • Exposure Controls / Personal Protection

Component	CASRN	OSHA PEL-TWA	ACGIH-TLV	Other Limits
Isoparaffinic Hydrocarbon	64742-48-9	Not Established	100 ppm	171 ppm STEL (Supplier Recommendation)
3-methoxy-3-methylbutan-1-ol	56539-66-3	Not Established	Not Established	Not Established
Carbon Dioxide (aerosol only)	124-38-9	5,000 ppm	5,000 ppm	30,000 STEL (ACGIH)

Engineering Controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits.

Personal Protection:

Eyes: Safety glasses.

Respiratory: Use an organic vapor phase cartridge-style respirator if ventilation is inadequate. "Half-mask" versions are normally appropriate.

Hands: Use solvent resistant nitrile gloves.

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



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Section 9 • Physical and Chemical Properties

Appearance:	Clear liquid.	Color:	Colorless.
Odor/Taste:	Mild, ether-like.	Vapor Pressure:	0.133 kPa (at 20 °C)
Solubility Description:	25% in water.	Evaporation Rate:	<0.1(BuAc=1)
Boiling Point (°C):	345 @ 101 kPa	Flash Point (°C):	62°C
Specific Gravity (Water=1):	0.78-0.81 @ 20 °C	Flash Point Method:	Tag-Closed Cup.
Vapor Density (air=1):	5.9	Auto Ignition Temperature (°C):	>260°C
V.O.C. Content:	795 g/L	Partition Coefficient (octanol/water):	<1
Flammable limits (estimated):	LOWER: 1.2% UPPER:13.1%	Viscosity:	2 cm ² /second @ 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. Exposure to direct sunlight for extended periods. Temperatures in excess of 50°C.
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

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	64742-48-9	Not Established	> 10000mg/kg/oral* >3160 mg/kg/dermal*
3-Methoxy-3-methyl-1-butanol (MMB)	56539-66-3	Not established	4.3g/kg oral/rat >2000 mg/kg dermal/rat
Carbon Dioxide (aerosol only)	124-38-9	Not established	Not established

* Supplier data

Section 12 • Ecological Information

Component Data:

Acute Aquatic Toxicity

Component	CASRN	Test	Species	Results
Isoparaffinic Hydrocarbon	64742-48-9	48-hour EC ₅₀	Daphnia magna	Not Established
		96-hour EC ₅₀	Microcystis pyrifera	Not Established
3-methoxy-3-methylbutan-1-ol	56539-66-3	48-hour TL _m	Fish (unidentified species)	7400 ppm
Carbon Dioxide (aerosol only)	124-38-9	Not applicable		

Section 13 • Disposal Considerations

Waste Status: In its purchased form, this material is a RCRA hazardous waste carrying waste code D003 (aerosols only)

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.



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Section 14 • Transport Information

Aerosols Only

Mode	Shipping Name	Hazard Class	Subclass	UN Number	Technical Name	Hazard Label	Packing Group	Emergency Response Guide
D.O.T. Ground	Consumer Commodity	ORM-D	NA	NA	NA	ORM-D	NA	NA
IATA	AEROSOLS, flammable	2.1	NA	1950	NA	Flammable Gas	NA	NA
IMDG (Regular)	AEROSOL	2.1	NA	1950	NA	Flammable Gas	NA	F-D, S-U
IMDG (Special)	Dangerous Goods in Limited quantities of Class 2	NA	NA	1950	NA	NA	NA	F-D, S-U

The bulk version of this product is not regulated for transportation.

Section 15 • Regulatory information

U.S. Federal Regulations

RCRA Hazardous Waste No.: D003

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): None

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

New Jersey RTK: Isoparaffinic Hydrocarbon 64742-48-9 • 3-methoxy-3-methylbutan-1-ol 56539-66-3 • Carbon Dioxide 124-38-9 (aerosol only)



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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:

Aerosol Class A, Class B5, Class D2B



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#10916 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: 3	
		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