



MATERIAL SAFETY DATA SHEET

LPS[®] EVR

Revision Date: March 16, 2011

Supersedes: March 13, 2009

Section 1 • Product and Company Identification

Product Name: LPS[®] EVR

Part Number: 05220 (aerosol), 05201, 05205, 05255,
C05220 (aerosol), C05201, C05205, C05255

Chemical Name: Acetone/d-limonene mixture

Product Use: A cleaner designed to remove paint residues from application equipment along with grease, grime, oil and other oil-based contaminants from various metallic parts.

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 will not 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, do not hesitate to call us at 770-243-8800.

Worker Toxicity

LPS[®] EVR is designed to remove paint residues from application equipment along with grease, grime, oil and other oil-based contaminants from various metallic parts. LPS[®] EVR can affect certain plastics and resins. Avoid spraying on painted surfaces (unless to assist in paint removal). It contains solvents that can be irritating to skin. 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[®] EVR 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. Use of filter masks with polystyrene filters is not recommended. For more exposure and first aid information, refer to MSDS Sections 2, 8 and 11.

Flammability

LPS[®] EVR is extremely flammable. Store product away from heat sources and do not spray into or around ignition sources (welding, grinding, pilot lights, live electric equipment, etc.).

Disposal

If you spill LPS[®] EVR, notify the proper environmental or safety department at your company right away. If LPS[®] EVR becomes contaminated with another substance and is rendered unusable for cleaning, the resulting mixture may fall under at least one hazardous classification. Never pour LPS[®] EVR down a drain. See section 13 for additional information.



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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: Extremely flammable. Contents under pressure. Harmful or fatal if swallowed.

Bulk: DANGER: Extremely flammable. 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: 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

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
Acetone	67-64-1	90 - 100%
Carbon Dioxide (aerosol only)	124-38-9	5 - 10%
d-Limonene	5989-27-5	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. Rinse affected area thoroughly with 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: 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 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 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. | |



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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: Store aerosols as Level 2 Aerosol (NFPA 30B). Keep container in a cool, well-ventilated area. Avoid breathing vapors. Ground and bond containers before transferring materials.

Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

Component	CASRN	OSHA TWA-PEL	OSHA STEL	ACGIH-TLV	ACGIH-STEEL	NIOSH
Acetone	67-64-1	1000 ppm	Not Established	500 ppm	750 ppm	250 ppm
Carbon Dioxide	124-38-9	5,000 ppm	Not Established	5,000 ppm	30,000 ppm	5000 ppm
d-Limonene	5989-27-5	Not Established	Not Established	Not Established	Not Established	Not Established

*Supplier Recommendation

Engineering Controls: Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

Personal Protection:

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:	Clear, colorless
Odor:	Slight Orange	Evaporation Rate:	Calculated 7.7
Solubility Description:	Soluble in water	Flash Point:	-20°C (-4°F) - dispensed liquid
Boiling Point:	56.5°C(134°F) – dispensed liquid	Flash Point Method:	TCC
Specific Gravity (H₂O=1):	0.78 – 0.80 @ 20°C	Decomposition Temperature:	Not Established
Vapor Density (air = 1):	2.0	Auto Ignition Temperature:	465°C (869°F)
Vapor Pressure:	Aerosol: ~3452 mmHg @ 20°C Bulk: ~184.7 mmHg @ 20°C	Flammable limits (estimated):	LOWER: 2.5% UPPER: 12.8%
Rule 1171 PPc:	Aerosol: ~0.01 mmHg @ 20°C Bulk: ~0.01 mmHg @ 20°C	Partition Coefficient (octanol/water):	Not Established
V.O.C. Content:	Aerosol: 1.6%, 12.7 g/L, 0.11 lb/gal per CARB/OTC/EPA Regulations Bulk: 1.7%, 13.6 g/L, 0.11 lb/gal per CARB/OTC/EPA Regulations	Odor Threshold:	Not Established
Melting Point:	Not Established	Viscosity:	14 cSt @ 25°C
pH:	Not Applicable	Volatiles:	100%
Heat of combustion:	Aerosol: 26.3 kJ/g Bulk: 27.9 kJ/g		

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 and strong acids.
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
Acetone	67-64-1	16000 ppm / rat / 4hr*	5800 mg/kg / oral / rabbit * 20000 mg/kg / dermal / rabbit
Carbon Dioxide	124-38-9	470000 ppm / rat / 30 min	Not Appropriate
d-Limonene	5989-27-5	Not Established	4400 mg/kg /oral / rat >5000 mg/kg / dermal / rabbit

* Supplier Data

Section 12 • Ecological Information

Mobility: Semi-volatile. Readily absorbed into soil. **Persistence and degradability:** 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:

Effect on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	d-Limonene	5989-27-5	4-day LC ₅₀	Oncorhynchus mykiss	35,000 µ/L
			96-hr EC ₅₀	Pimephales promelas	1,490,000 µ/L
Acute Toxicity on Daphnia	Acetone	67-64-1	48-hr EC ₅₀	Daphnia magna	12,700 mg/L
Bacterial inhibition	No Data Available				
Growth inhibition of algae					
Bioaccumulation in fish					

* Supplier Data



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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 waste code D001 and D003. (U.S.). If disposed of in its received form, the bulk product 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.

Section 14 • Transport Information

Aerosol

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
	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 Instruction:	P003, LP02	EmS:	F-D, S-U
	Marine pollutant:	No	Technical Name:	NA
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



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Bulk

D.O.T. Ground	Shipping Name:	Flammable Liquid, n.o.s	UN no:	1993
	Hazard Class:	3	Technical Name:	Acetone, d-limonene
	Subclass:	NA	Hazard Label:	Flammable Liquid
	Packing group:	II		
Road/Rail - ADR/RID	UN no:	1993	ADR Class:	3
	Packing group:	II	Classification code:	F1
	Name and Description:	Flammable Liquid, n.o.s.	Hazard ID no:	33
	Labeling:	3	Technical Name:	Acetone, d-limonene
IMDG-IMO	UN no:	1993	Class:	3
	Shipping Name:	Flammable Liquids, n.o.s.	Subsidiary Risk:	NA
	Labeling:	3	Packing group:	II
	Packing Instruction:	P003, LP02	EmS:	F-E, S-E
	Marine pollutant:	No	Technical Name:	Acetone, d-limonene
IATA-ICAO	UN no:	1993	Class:	3
	Shipping Name:	Flammable Liquid, n.o.s.	Subclass	NA
	Packing instructions:	Y341 (Ltd.Qty.), 353, 364 (CAO)	Packing group:	II
	Labeling:	Flammable Liquid	Technical Name:	Acetone, d-limonene

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 (aerosol only)

Comprehensive Environmental Response 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 (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



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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 conforms to consumer regulations.

New Jersey RTK:

Aerosol: Acetone 67-64-1 • d-Limonene 5989-27-5 • Carbon Dioxide 124-38-9

Bulk: Acetone 67-64-1 • d-Limonene 5989-27-5

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 B2, Class D2B



Other Regulations

Montreal Protocol listed ingredients:	None
Stockholm Convention listed ingredients:	None
Rotterdam Convention listed ingredients:	None
RoHS Compliant:	Yes



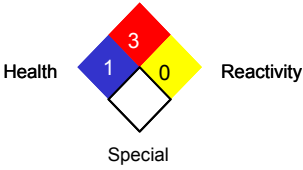
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Section 16 • Other Information

MSDS# 15220 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: 3	Flammability: aerosol 3 Flammability: bulk 3	
	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. George, Regulatory Affairs Coordinator
LPS Laboratories, A division of Illinois Tool Works