



MATERIAL SAFETY DATA SHEET

LPS PreSolve Orange Degreaser

Section 1 • Product and Company Identification

Manufacturer's Name: LPS Laboratories

Trade Name: LPS PreSolve Orange Degreaser

Part Numbers: 01420 (aerosol), 01422, 01428, 01405, 01455

Address:

4647 Hugh Howell Road
Tucker, GA USA 30085-5052

Chemical Family: d-Limonene, Aliphatic Hydrocarbons

Telephone Number: 770-243-8800

Emergency Telephone Number:

1-800-424-9300 Chemtrec;
Outside U.S.: (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 PRESOLVE ORANGE DEGREASER is designed to remove grease, grime, oil and other oil-based contaminants from a variety of substrates, including automotive and miscellaneous metallic parts. It contains d-limonene and aliphatic hydrocarbons 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 PRESOLVE ORANGE DEGREASER 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 PRESOLVE ORANGE DEGREASER generates a "flame extension" when sprayed into an ignition source (flame, arc, etc.), but in having a flash point above 100°F, it is generally safe to use for most industrial applications. Store product away from heat sources and do not spray into live electrical equipment.

Disposal

If you spill LPS PRESOLVE ORANGE DEGREASER, notify the proper environmental or safety department at your company right away. If LPS PRESOLVE ORANGE DEGREASER 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).

Emergency Overview: Aerosol: DANGER: Flammable. Aerosol contents under pressure.

Bulk: WARNING: Flammable liquid and vapor.

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
Solvent Naphtha (petroleum), medium aliphatic	64742-88-7	40 - 60
d-limonene	5989-27-5	40 - 60
Carbon dioxide (aerosol only)	124-38-9	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.



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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. **NFPA Class:** II Liquid

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, autoignition 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.

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.



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Section 8 • Exposure Controls / Personal Protection

Ingredients	CASRN	OSHA PEL-TWA	ACGIH-TLV	ACGIH - STEL
Solvent Naphtha (petroleum), medium aliphatic	64742-88-7	100 ppm	100 ppm	Not Established
d-limonene	5989-27-5	Not Established	Not Established	Not Established
Carbon dioxide (aerosol only)	124-38-9	5,000 ppm	5,000 ppm	30,000 ppm

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 organic vapor cartridge type respirator if ventilation is inadequate.

Hands: Use nitrile gloves.

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

Section 9 • Physical and Chemical Properties

Appearance:	Liquid.	Color:	Colorless / water-white
Odour/Taste:	Orange.	Rule 1171 PPc:	<5 mmHg at 20°C
Solubility Description:	Less than 0.1%	Total Composite Vapor Pressure :	<5 mmHg at 20°C
Boiling Point (°C):	157°C (315 °F) @ 760mmHg	Evaporation Rate:	0.15 (BuAc=1)
Specific Gravity (Water=1):	0.80-0.82 @ 20 °C	Flash Point (°C):	40°C (104°F)
Vapour Density (air=1):	4.8	Flash Point Method:	Tag-Closed Cup.
V.O.C. Content: Per C.A.R.B / O.T.C. and S.C.A.Q.M.D. Rule 102	100%, 810 g/L, 6.75 #/gal.	Auto Ignition Temperature (°C):	Not Established
Flammable limits (estimated):	LOWER: 0.7% UPPER: 6%	Partition Coefficient (octanol/water):	<1
Viscosity:	<3 cSt @ 25°C	Volatiles:	100%
pH:	Not applicable	Auto Ignition Temperature (°C):	Not Established



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Section 10 • Stability and Reactivity

Stability and Reactivity: The product is stable.

Incompatibility with Various Substances: Extremely reactive or incompatible with oxidizing agents.

Hazardous decomposition products: These products are carbon oxides (CO, CO₂)

Hazardous polymerization: Will not occur.

Section 11 • Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

Following exposure to vapors, this material can produce central nervous system depression. High atmospheric concentrations can result in eye, nasal and respiratory tract irritation. However, if handled in accordance with good industrial hygiene practice, this product will not present a significant hazard in the workplace.

Ingredients	CASRN	LC-50	LD-50
Solvent Naphtha (petroleum), medium aliphatic	64742-88-7	>5500 mg/m ³ rat 4 hours	> 5000 mg/kg (oral, rat) 3000 mg/kg (dermal, rat)
d-limonene	5989-27-5	Not established	>5000 mg/kg (oral, rabbit) >5000 mg/kg (dermal, rabbit)
Carbon Dioxide (aerosol only)	124-38-9	Not available	Not appropriate

Section 12 • Ecological Information

Component Data: Acute Aquatic Toxicity

Component	CASRN	Test	Species	Results
Solvent Naphtha (petroleum), medium aliphatic	64742-88-7	Not Available		
d-limonene	5989-27-5	4-day LC ₅₀	Oncorhynchus mykiss	35,000 µg/L
		96-hour EC ₅₀	Pimephales promelas	1,490,000 µg/L

Section 13 • Disposal Considerations

Waste Status: In its purchased form, this material is a RCRA hazardous waste carrying waste codes D001 and 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	1950	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

Non-Aerosol Packaging

Mode	Shipping Name	Hazard Class	Number	Technical Name	Label	Packing Group	Emergency Response Guide
D.O.T. Ground	Not Regulated	NA	NA	NA	NA	NA	NA
IATA	Flammable liquid, n.o.s.	3	Un 1993	Naphtha Petroleum	Flammable Liquid	III	NA
IMDG (Regular)	Flammable liquid, n.o.s.	3	UN 1993	Naphtha Petroleum	Flammable Liquid	III	F-E, <u>S-E</u>

If shipped by air (IATA), part # 01422 will need to be repacked. Contact LPS Technical for additional information.

Section 15 • Regulatory information

U.S. Federal Regulations:

- TSCA 8(b) inventory:** All of the ingredients are listed on the TSCA inventory or are exempt.
- RCRA Hazardous Waste No.:** D003 (aerosols only), D001.
- CERCLA Sections 102a/103 Hazardous Substances (40 CFR part 370) Reportable Quantity:** none
- SARA TITLE III Sections 311/312 hazardous Categorization (40 CFR part 370):** Sudden Release of Pressure (aerosol only), Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard.
- SARA TITLE III Section 313:** No
- Hazardous Air Pollutants (U.S. EPA):** None

State Regulations:

- New Jersey RTK:** Solvent Naphtha (petroleum), medium aliphatic (CASRN: 64742-88-7), d-limonene (CASRN: 5989-27-5), Carbon Dioxide aerosol propellant (CASRN: 124-38-9)
- California Proposition 65:** None.
- California and OTC States:** This product is not acceptable for consumer use – not for retail sale.



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Section 16 • Other Information

MSDS#11420

Responsible Name: Ed Williams

Technical Manager

Health: 2

Flammability: 2

Reactivity: 0

HMIS

NFPA

flammability



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.

Ed Williams, Technical Manager

LPS Laboratories

A division of Illinois Tool Works

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