

Revision Date: September 1, 2011 Supersedes: March 15, 2011

Section 1 • Product and Company Identification

Product Name: LPS® PreSolve

Part Number(s): 01420 (aerosol), 01422, 01428, 01405, 01455, C01420 (aerosol), C01422, C01428, C01405, C01455

Chemical Name: d-Limonene / Hydrocarbon Mixture

Product Use: A solvent degreasing agent designed for removing tar, adhesives, grease, oil and other residues from metal and other

hard surfaces.

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: <a href="http://www.lpslabs.com">http://www.lpslabs.com</a>

#### 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. Irritating to skin. May cause skin sensitization by skin contact.

Bulk: DANGER: Flammable. Harmful or fatal if swallowed. Irritating to skin. May cause skin sensitization by skin contact.

Primary route(s) of entry: Skin and eye contact. Inhalation.

**Potential Acute Health Effects:** 

Eyes: Irritating to eyes.

Skin: Prolonged or repeated skin contact with liquid may cause defatting resulting in drying, redness and possible blistering. This product

contains citrus d-Limonene - a skin sensitizing agent.

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.



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**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
Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic	8052-41-3 or 64742-88-7	50 - 70%
3-Methoxy-3-Methylbutan-1-ol	56539-66-3	10 - 20%
d-limonene	5989-27-5	5 - 10%
Diisopropylbenzene	25321-09-9	5 - 10%
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.

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: 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: Contain and recover spilled material when possible.

**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.

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
Stoddard Solvent or Solvent Naphtha (Petroleum), Medium Aliphatic	8052-41-3 or 64742-88-7	500 ppm PEL	100 ppm TLV	350 mg/m3 TWA	5 mg/m3 (oil mist) TWA
3-Methoxy-3-Methylbutan-1-ol	56539-66-3	Not established	Not established Not established		None reported
d-limonene	5989-27-5	Not established	Not established	Not established	None reported
Diisopropylbenzene	25321-09-9	Not established	Not established	ot established Not established	
Carbon Dioxide (aerosol only)	124-38-9	5000 ppm PEL	5000 ppm TLV 5000 ppm TWA 30000 ppm STEL 30000 ppm STEL		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: Clear, slightly off-white

Odor: Naphtha / Orange Evaporation Rate: > 0.1 (BuAc = 1)

Solubility Description: < 15% in water Flash Point: 40°C (104°F) - dispensed liquid

**Boiling Point:** > 150°C (302°F) **Flash Point Method:** Tag-Closed Cup

Specific Gravity (H2O=1): 0.82 - 0.86 @ 20°C Decomposition Temperature: Not established

Vapor Density (air = 1): > 1 Auto ignition temperature: > 200°C (392°F)

Vapor Pressure: < 5 mm Hg @ 20°C Flammable limits (estimated): LOWER: 0.7%

UPPER: 6.0%

Rule 1171 PPc: < 5 mm Hg @ 20°C Partition Coefficient (octanol/water): Not established

V.O.C. Content: Aerosol: 97.2% per State & Federal Odor Threshold: Not established

Consumer Product Regulations; 816 g/L per SCAQMD Rule 102

Bulk: 100% per State & Federal

Consumer Product Regulations; 839 g/L per SCAQMD Rule 102

Melting Point: Not established Viscosity: < 3 cSt @ 25°C

pH: Not applicable Volatiles: 100%

Heat of combustion: Aerosol: > 30 kJ/g
Bulk: > 30 kJ/g

Section 10 • Stability and Reactivity

**Chemical Stability:** Product is stable under recommended storage conditions.

**Conditions to Avoid:** Keep away from ignition sources and extreme temperatures.

**Incompatibility:** Reactive or incompatible with oxidizing agents. Avoid photoreactive agents and strong inorganic and organic acids.

**Hazardous Decomposition:** These products are carbon oxides (CO, CO2) and hydrocarbons.

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		
Stoddard Solvent	8052-41-3		> 5000 mg/kg / oral / rat*		
or	or	> 5500 mg/m3 / rat / 4 hr	0 0		
Solvent Naphtha (Petroleum), Medium Aliphatic	64742-88-7		> 3000 mg/kg / dermal / rat*		
3-Methoxy-3-Methylbutan-1-ol	56539-66-3	Not established	4.3 g/kg / oral / rat		
3-ivieti loxy-3-ivieti iyibutari- i-oi	30339-00-3 Not established		> 2000 mg/kg / dermal / rat		
d-limonene	5989-27-5	Not established	4400 mg/kg / oral / rat		
u-iiinonene	3909-27-3	Not established	> 5000 mg/kg / dermal / rabbit		
Diigopropylhopzopo	25321-09-9	> 2.1 mg/l / rot / 6 hr	3900 mg/kg / oral / rat		
Diisopropylbenzene	25521-09-9	> 2.1 mg/L / rat / 6 hr	> 3160 mg/kg / dermal / rabbit		
Carbon Dioxide (aerosol only)	124-38-9	470000 ppm / rat / 30 minutes	Not appropriate		

<sup>\*</sup> Supplier Data

## Section 12 • Ecological Information

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

Bioaccumulative potential: Minimal 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	d-limonene	5989-27-5	4-day LC50	Oncorhynchus Mykiss	35,000 μg/L	
	u-ilitionene	5969-27-5	96-hr EC50	Pimephales Promelas	1,490,000 μg/L	
	3-Methoxy-3-Methylbutan-1-ol	56539-66-3	48-hr EC50	nr EC50 Oryzias Latipes		
	Diisopropylbenzene	25321-09-9	Toxicity results are above the water solubility limit for this substance.			
Acute Toxicity on Daphnia						
Bacterial Inhibition	No data available					
Growth inhibition of algae						
Bioaccumulation in fish						

<sup>\*</sup> 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 the waste codes D001 and D003 (U.S.). If disposed of in its

received form, the bulk product carries the waste code D001 (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.

## Section 14 • Transport Information

#### <u>Aerosol</u>

	Shipping Name:	Consumer Commodity	UN No.:	NA
D.O.T. Ground	Hazard Class:	ORM-D	Technical Name:	NA
	Subclass:	NA	Hazard Label:	ORM-D Already on box
	Packing Group:	NA		•
	UN No.:	1950	ADR Class:	2
Road/Rail -	Packing Group:	NA	Classification Code:	5F
ADR/RID	Name and description:	AEROSOLS, flammable	Hazard ID No.:	NA
	Labeling:	2.1	Technical Name:	NA
	UN No.:	1950	Class:	2
	Shipping Name:	Aerosols	Subsidiary Risk:	2.1
IMDG-IMO	Labeling:	NA	Packing Group:	NA
	Packing Instructions:	P003, LP02	EmS:	F-D, S-U
	Marine pollutant:	Yes	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

#### **Bulk**

	Shipping Name:	Not regulated	UN No.:	NA
D.O.T. Ground	Hazard Class:	NA	Technical Name:	NA
D.O. I. Ground	Subclass:	NA	Hazard Label:	NA
	Packing Group:	NA		
	UN No.:	1993	ADR Class:	3
Road/Rail -	Packing Group:	III	Classification Code:	F1
ADR/RID	Name and description:	Flammable liquid, n.o.s.	Hazard ID No.:	33
	Labeling:	3	Technical Name:	Naphtha, d-limonene
	UN No.:	1993	Class:	3
	Shipping Name:	Flammable liquid, n.o.s.	Subsidiary Risk:	NA
IMDG-IMO	Labeling:	3	Packing Group:	III
	Packing Instructions:	P001, LP01	EmS:	F-E, <u>S-E</u>
	Marine pollutant:	Yes	Technical Name:	NA
	UN No.:	1993	Class:	3
IATA - ICAO:	Shipping Name:	Flammable liquid, n.o.s.	Subclass:	NA
	Packing Instructions:	Y344 (Ltd. Qty.), 355, 366 (CAO)	Packing Group:	III
	Labeling:	Flammable Liquid	Technical Name:	Naphtha, 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.



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#### Section 15 • Regulatory Information

**U.S. Federal Regulations** 

RCRA Hazardous Waste No.: D001, D003 (aerosols only)

Comprehensive Environmental Response, Compensation 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):

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 for manufacturing use only - not for retail sale.

New Jersey Right to Know:

Aerosol: Solvent Naphtha (Petroleum), Medium aliphatic 64742-88-7 or Stoddard Solvent 8052-41-3 • 3-Methoxy-3-Methylbutan-1-ol 56539-66-3 • d-Limonene 5989-27-5 • Diisopropylbenzene 25321-09-9 • Carbon Dioxide 124-38-9

Bulk: Solvent Naphtha (Petroleum), Medium aliphatic 64742-88-7 or Stoddard Solvent 8052-41-3 ◆ 3-Methoxy-3-Methylbutan-1-ol 56539-66-3 ◆ d-Limonene 5989-27-5 ◆ Diisopropylbenzene 25321-09-9

## International Regulations

#### Canadian Environmental Protection Act (CEPA):

All of the components of this product are included on the Canadian Domestic Substances list (DSL).

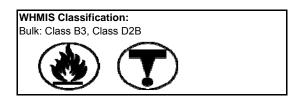
## Canadian Workplace Hazardous Materials Information System WHMIS:

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: Stockholm Convention listed ingredients: Rotterdam Convention listed engredients: RoHS Compliant:



None

None

None

Yes



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#### Section 16 • Other Information

MSDS#:	11420	HMIS 1996		HMIS III		<b>NFPA</b> Flammability		
MSDS Preparation Responsible Name:		Health:	2	Health:	[/] 2		2	
Elena Badiuzzi Compliance Manager		Flammability:	2	Flammability Aerosol: Flammability Bulk:	4 2	Health	2 0	Reactivity
Telephone: +1 770 243-8800		Reactivity:	0	Physical Hazard Aerosol: Physical Hazard Bulk:	2 0		Special	

#### 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