LPS.

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product identifier LPS® PF® Solvent

Version # 01

 Issue date
 01-06-2014

 CAS #
 Mixture

Part Number C61432, C61401, C61405, C61456

Product use A solvent agent designed for removing grease, oil and other residues from metal, power cable and

fiber optic cable surfaces.

Manufacturer LPS Laboratories, a division of Illinois Tool Works

information 4647 Hugh Howell Rd

Tucker, Georgia 30084 United States

www.lpslabs.com

1-800-241-8334/ 770-243-8800 Chemtrec 1-800-424-9300

2. Hazards Identification

Emergency overview DANGER

Combustible liquid. May be ignited by heat, sparks or flames.

HARMFUL OR FATAL IF SWALLOWED.

May cause an allergic skin reaction. May be irritating to eyes.

Potential health effects

Routes of exposure Eye contact. Skin contact. Inhalation. Ingestion. **Eyes** Avoid contact with eyes. May cause eye irritation.

Skin Avoid contact with the skin. May cause sensitization by skin contact.

InhalationDo not breathe fumes. Prolonged inhalation may be harmful.IngestionDo not ingest. Harmful: may cause lung damage if swallowed.

Signs and symptoms Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing,

redness, swelling, and blurred vision. May cause an allergic skin reaction. Symptoms may include

redness, edema, drying, defatting and cracking of the skin.

Potential environmental effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition / Information on Ingredients

Components	CAS#	Percent
Naphtha Petroleum, Hydrotreated Heavy	64742-48-9	60 - 100
D-LIMONENE	5989-27-5	7 - 13

4. First Aid Measures

First aid procedures

Eye contact Any material that contacts the eye should be washed out immediately with water. If easy to do,

remove contact lenses. Continue rinsing. Get medical attention if irritation develops and persists.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing.

Call a physician if symptoms develop or persist.

Ingestion Call a physician or poison control center immediately. Only induce vomiting at the instruction of

medical personnel. Never give anything by mouth to an unconscious person. If vomiting occurs,

keep head low so that stomach content doesn't get into the lungs.

Notes to physician Provide general supportive measures and treat symptomatically.

General advice Call a POISON CENTER or doctor/physician if you feel unwell.

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5. Fire Fighting Measures

Flammable properties Combustible by WHMIS criteria.

Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

Protection of firefighters

Specific hazards arising from the chemical

Combustible.

Protective equipment for

firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with

face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Fire fighting

equipment/instructions

In case of fire and/or explosion do not breathe fumes. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Explosion data

Sensitivity to static

None known.

discharge

Sensitivity to mechanical

impact

None known.

Hazardous combustion

products

May include oxides of carbon.

General fire hazards Combustible liquid.

6. Accidental Release Measures

Personal precautions Keep unnecessary personnel away. For personal protection, see section 8 of the MSDS.

Environmental precautions Do not contaminate water.

Methods for cleaning up Should not be released into the environment. For waste disposal, see section 13 of the MSDS.

7. Handling and Storage

Handling Avoid contact with eyes. Do not get this material in contact with skin. Avoid prolonged exposure.

Avoid release to the environment.

Storage Store in original tightly closed container. Store locked up. Store away from incompatible materials

(see Section 10 of the MSDS).

8. Exposure Controls / Personal Protection

Biological limit values No biological exposure limits noted for the ingredient(s).

Engineering controls Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates

should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Personal protective equipment

Eye / face protection Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is

recommended.

Skin protection Avoid contact with the skin. Wear suitable protective clothing and gloves. Chemical resistant

gloves.

Respiratory protection No personal respiratory protective equipment normally required. Do not breathe

dust/fume/gas/mist/vapors/spray.

9. Physical & Chemical Properties

Appearance

Physical state Liquid.
Form Liquid.

Color Clear water-white

Odor Orange
Odor threshold Not available.
pH Not applicable

Vapor pressure 0.48 mm Hg @ 20°C

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Vapor density > 1 (air = 1)

Boiling point 365 °F (185 °C) @760 mm Hg

Melting point/Freezing point Not available. Solubility (water) Negligible

0.74 - 0.78 @20°C Specific gravity Relative density Not available.

> 141.8 °F (> 61.0 °C) Tag Closed Cup Flash point

Flammability limits in air,

upper, % by volume

5.3 %

Flammability limits in air, lower, % by volume

0.7 %

Auto-ignition temperature

635 °F (335 °C)

VOC 100 % per US State and Federal Consumer Product Regulations

Evaporation rate < 0.1 BuAc = 1**Viscosity** 1.5 cSt @ 25°C

100 % Percent volatile

Partition coefficient (n-octanol/water)

Not Determined

10. Chemical Stability & Reactivity Information

Material is stable under normal conditions. **Chemical stability**

Heat, flames and sparks. Contact with incompatible materials. Conditions to avoid

mutagenic or genotoxic.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

reactions

Carbon oxides.

Possibility of hazardous

Hazardous polymerization does not occur.

11. Toxicological Information

Toxicological data				
Components	Species	Test Results		
D-LIMONENE (CAS 5989-27-5)				
Acute				
Dermal				
LD50	Rabbit	> 5000 mg/kg		
Oral				
LD50	Mouse	5600 - 6600 mg/kg		
	Rat	> 2000 mg/kg		
Other				
LD50	Mouse	1.3 g/kg		
	Rat	0.11 g/kg		
Acute effects	May cause an allergic skin reaction. Harmful if swallowed. May be fatal if swallowed and enters airways.			
Local effects	May cause sensitization by skin contact.			
Chronic effects	Prolonged or repeated contact may cause drying, cracking, or irritation. Prolonged inhalation may be harmful.			
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.			
IARC Monographs. Overall Evaluation of Carcinogenicity				
D-LIMONENE (CAS 5989	D-LIMONENE (CAS 5989-27-5) 3 Not classifiable as to carcinogenicity to humans.			
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are			

This product is not expected to cause reproductive or developmental effects.

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Reproductive effects

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause an allergic skin reaction.

12. Ecological Information

Ecotoxicological data

Components Species Test Results

D-LIMONENE (CAS 5989-27-5)

Aquatic

Crustacea EC50 Water flea (Daphnia pulex) 69.6 mg/l, 48 hours

Fish LC50 Fathead minnow (Pimephales promelas) 0.619 - 0.796 mg/l, 96 hours

Ecotoxicity Toxic to aquatic life with long lasting effects.

Environmental effects Toxic to aquatic organisms.

Aquatic toxicityToxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Partition coefficient

D-LIMONENE 4.232

Mobility in environmental

media

The product is immiscible with water and will spread on the water surface.

13. Disposal Considerations

Disposal instructions Dispose of contents/container in accordance with local/regional/national/international regulations.

Waste from residues / unused

products

Dispose of in accordance with local regulations.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied.

14. Transport Information

TDG

UN number UN3082

UN proper shipping name

Transport hazard class(es)

Environmentally hazardous substance, liquid, n.o.s. (D-LIMONENE)

Class 9
Subsidiary risk Packing group III

Environmental hazards Not available.

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

IATA

Not regulated as dangerous goods.

IMDG

UN number UN3082

UN proper shipping name

Environmentally hazardous substance, liquid, n.o.s. (D-LIMONENE)

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III
Environmental hazards

Marine pollutant No. EmS F-A, S-F

Special precautions for user Read safety instructions, MSDS and emergency procedures before handling.

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IMDG; TDG



15. Regulatory Information

WHMIS status Controlled

WHMIS classification B3 - Combustible Liquids

D2B - Other Toxic Effects-TOXIC

WHMIS labeling





Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other Information

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