

1937 Mount Vernon Avenue, Pomona CA 91768 1-800-540-5823 / 1-909-865-3081

# gwlinc.com

# 1. Identification

**Product identifier** LPS® CFC Free (Aerosol)

Other means of identification

**Part Number** 03116

A fast drying industrial cleaning solvent designed to remove soil and other contaminants. Recommended use

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer Manufacturer

> ITW Pro Brands Company name **Address**

4647 Hugh Howell Rd. Tucker, GA 30084

(U.S.A.) Country

Tel: +1 770-243-8800

In Case of Emergency 1-800-424-9300 (inside U.S.)

+001 703-527-3887 (outside U.S.)

Website www.lpslabs.com

E-mail lpssds@itwprobrands.com

# 2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

> Gases under pressure Compressed gas

Health hazards Skin corrosion/irritation Category 2

> Serious eye damage/eye irritation Category 2A Reproductive toxicity (fertility) Category 2

Specific target organ toxicity, single exposure Category 3 narcotic effects

**Environmental hazards** Not classified. Not classified. **OSHA** defined hazards

Label elements



Signal word Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. Causes skin

irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May

cause drowsiness or dizziness.

**Precautionary statement** 

Prevention Obtain special instructions before use. Do not handle until all safety precautions have been read

and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open flame or other ignition source. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention. If on skin: Wash with plenty of Response

water/soap. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

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Storage Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Store in a

well-ventilated place. Keep container tightly closed. Store locked up.

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

Hazard(s) not otherwise classified (HNOC)

None known.

None.

Supplemental information

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
2-Methylpentane		107-83-5	70 - 80
Isopropanol		67-63-0	5 - 15
Pentane		109-66-0	1 - 10
Carbon Dioxide		124-38-9	1 - 5
N-Hexane		110-54-3	0.1 - 1

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

### 4. First-aid measures

Skin contact

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or

artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other

proper respiratory medical device. Call a physician if symptoms develop or persist.

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

**Eye contact** Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses.

Call a physician or Poison Control Center immediately.

**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.

Most important symptoms/effects, acute and delayed

Irritation of eyes and mucous membranes. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Narcosis. Behavioral changes. Prolonged exposure may cause chronic effects.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media

Alcohol resistant foam. Water fog. Carbon dioxide (CO2). Dry chemical powder, carbon dioxide, sand or earth may be used for small fires only.

Unsuitable extinguishing media

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

Specific hazards arising from the chemical

By heating and fire, harmful vapors/gases may be formed. Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back.

Special protective equipment and precautions for firefighters

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection.

Fire fighting equipment/instructions

In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not

breathe fumes.

**General fire hazards** Extremely flammable aerosol.

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# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures Consider initial downwind evacuation for at least 500 meters (1/3 mile). Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep out of low areas. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Use appropriate containment to avoid environmental contamination. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Take precautionary measures against static discharge. Use only non-sparking tools. Keep combustibles (wood, paper, oil, etc.) away from spilled material. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Use foam to blanket spilled material. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

#### **Environmental precautions**

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid

discharge into drains, water courses or onto the ground. Use appropriate containment to avoid environmental contamination.

# 7. Handling and storage

# Precautions for safe handling

Should be handled in closed systems, if possible. Vapors may form explosive mixtures with air. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Minimize fire risks from flammable and combustible materials (including combustible dust and static accumulating liquids) or dangerous reactions with incompatible materials. Use non-sparking tools and explosion-proof equipment.

Avoid contact during pregnancy/while nursing. Do not breathe mist or vapor. Do not taste or swallow. Avoid contact with skin. Avoid contact with eyes. Avoid prolonged exposure.

Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

# Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Keep away from heat, sparks and open flame. Eliminate sources of ignition.

Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Keep in an area equipped with sprinklers.

# 8. Exposure controls/personal protection

# Occupational exposure limits

# US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
·		5000 ppm	
Isopropanol (CAS 67-63-0)	PEL	980 mg/m3	
		400 ppm	
N-Hexane (CAS 110-54-3)	PEL	1800 mg/m3	
		500 ppm	
Pentane (CAS 109-66-0)	PEL	2950 mg/m3	
		1000 ppm	

US. ACGIH Threshold Limit Value Components	Туре	Value	
2-Methylpentane (CAS 107-83-5)	STEL	1000 ppm	
,	TWA	500 ppm	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
,	TWA	5000 ppm	
Isopropanol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
N-Hexane (CAS 110-54-3)	TWA	50 ppm	
Pentane (CAS 109-66-0)	TWA	1000 ppm	
US. NIOSH: Pocket Guide to Chen	nical Hazards		
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
·		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
Isopropanol (CAS 67-63-0)	STEL	1225 mg/m3	
		500 ppm	
	TWA	980 mg/m3	
		400 ppm	
		100	
N-Hexane (CAS 110-54-3)	TWA	180 mg/m3	
	TWA	50 ppm	
	TWA Ceiling		
N-Hexane (CAS 110-54-3) Pentane (CAS 109-66-0)		50 ppm	
		50 ppm 1800 mg/m3	

#### **Biological limit values**

**ACGIH Biological Exposure Indices** 

Components	Value	Determinant	Specimen	Sampling Time
Isopropanol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*
N-Hexane (CAS 110-54-3)	0.4 mg/l	2,5-Hexanedio n, without hydrolysis	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

### **Exposure guidelines**

US - California OELs: Skin designation

N-Hexane (CAS 110-54-3) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation** 

N-Hexane (CAS 110-54-3)

Can be absorbed through the skin.

Appropriate engineering

Explosion-proof general and local exhaust ventilation. Provide eyewash station.

controls

Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.

Skin protection

**Hand protection** For prolonged or repeated skin contact use suitable protective gloves. Chemical resistant gloves

are recommended.

Other Avoid contact with the skin. Wear appropriate chemical resistant clothing.

Respiratory protection No personal respiratory protective equipment normally required. Use a NIOSH/MSHA approved

respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Thermal hazards None known

**General hygiene**When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely

wash work clothing and protective equipment to remove contaminants.

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# 9. Physical and chemical properties

Appearance Liquid.
Physical state Gas.
Form Aerosol.

Color Clear water-white

Odor Solvent.
Odor threshold Not available.
pH Not available.
Melting point/freezing point Not available.

Initial boiling point and boiling

140.9 °F (60.5 °C) dispensed liquid

range

Flash point < 1.4 °F (< -17.0 °C) Tag Closed Cup

Evaporation rate < 1 (Ethyl Ether = 1)
Flammability (solid, gas) Not available.
Upper/lower flammability or explosive limits

Flammability limit - lower

0.6%

(%)

Flammability limit - upper

7 %

(%)

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 352.53 mm Hg @ 38°C

Vapor density  $\sim 3 \text{ (air = 1)}$ Relative density Not available.

Solubility(ies)

Solubility (water) < 10 % w/w

Partition coefficient > 1

(n-octanol/water)

Auto-ignition temperature582.8 °F (306 °C)Decomposition temperatureNot available.Viscosity< 3 cSt @ 25°C</th>

Other information

Heat of combustion > 30 kJ/g
Percent volatile 100 %

**Specific gravity** 0.64 - 0.67 @ 20°C

VOC 96.2 % per U.S, State and Federal Consumer Product Regulations; 669 g/L per SCAQMD Rule 102

### 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Risk of ignition. Instability caused by elevated temperatures.

Possibility of hazardous No dangerous reaction known under conditions of normal use.

reactions

**Conditions to avoid** Avoid temperatures exceeding the flash point.

**Incompatible materials** Strong oxidizing agents. Isocyanates. Acids. Chlorine.

Hazardous decomposition Carbon oxides.

products

# 11. Toxicological information

#### Information on likely routes of exposure

**Inhalation** Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

**Skin contact**Causes skin irritation. Frequent or prolonged contact may defat and dry the skin, leading to

discomfort and dermatitis.

**Eye contact** Causes serious eye irritation.

**Ingestion** May cause discomfort if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation. Defatting of the skin. Irritating to eyes and respiratory system. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

Information on toxicological effects

Acute toxicity Narcotic effects.

Components Species Test Results

Isopropanol (CAS 67-63-0)

<u>Acute</u>

Oral

LD50 Rat 4.7 g/kg

N-Hexane (CAS 110-54-3)

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg, 4 Hours

Pentane (CAS 109-66-0)

Acute Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation

Serious eye damage/eye

Causes serious eye irritation.

Causes skin irritation.

irritation

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**ACGIH Carcinogens** 

Isopropanol (CAS 67-63-0)

A4 Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.

Specific target organ toxicity -

single exposure

Narcotic effects.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not likely, due to the form of the product.

Chronic effects None known.

Further information None known.

12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

Components Species Test Results

Isopropanol (CAS 67-63-0)

Aquatic

Fish LC50 Bluegill (Lepomis macrochirus) > 1400 mg/l, 96 hours

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> 1400 mg/i, 90 mours

Components Species Test Results

N-Hexane (CAS 110-54-3)

Aquatic

Fish LC50 Fathead minnow (Pimephales promelas) 2.101 - 2.981 mg/l, 96 hours

Persistence and degradability

Not inherently biodegradable.

Bioaccumulative potential

No data available for this product.

Partition coefficient n-octanol / water (log Kow)

 LPS® CFC Free (Aerosol)
 > 1

 2-Methylpentane
 3.74

 Isopropanol
 0.05

 N-Hexane
 3.9

 Pentane
 3.39

Mobility in soil Readily absorbed into soil.

Other adverse effects None known.

# 13. Disposal considerations

**Disposal instructions**Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material

and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international

regulations.

Hazardous waste code D001: Waste Flammable material with a flash point <140 F

D003: Waste Reactive material

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal.

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

emptied.

# 14. Transport information

DOT

UN number UN1950

UN proper shipping name

Transport hazard class(es)

Aerosols, flammable

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not available.

**Environmental hazards** 

Marine pollutant No

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

instructions, SDS and emergency procedures before handling.

Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

IATA

UN number UN1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)
Class 2.1
Subsidiary risk -

Packing group Not available.

Environmental hazards No. ERG Code 2X

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

instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only

Allowed with restrictions.

**IMDG** 

**UN** number

UN1950

UN proper shipping name

AEROSOLS, flammable, MARINE POLLUTANT

Transport hazard class(es)
Class

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not available.

**Environmental hazards** 

Marine pollutant Yes
EmS F-D, S-U

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

instructions, SDS and emergency procedures before handling.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

### DOT



IATA; IMDG



Marine pollutant



**General information** IMDG Regulated Marine Pollutant.

# 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

N-Hexane (CAS 110-54-3) Listed.

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# SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - Yes Fire Hazard - Yes Pressure Hazard - Yes Reactivity Hazard - No

#### SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous Yes

chemical

SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

N-Hexane (CAS 110-54-3)

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Pentane (CAS 109-66-0)

Safe Drinking Water Act

Not regulated.

(SDWA)

#### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Isopropanol (CAS 67-63-0) Low priority

**Inventory name** 

### **US state regulations**

US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd.

(a))

Isopropanol (CAS 67-63-0) N-Hexane (CAS 110-54-3)

# **International Inventories**

Country(s) or region

	•	, ,
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

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

# 16. Other information, including date of preparation or last revision

**Revision date** 05-18-2016 08-21-2017

Version # 03

Material name: LPS® CFC Free (Aerosol)

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On inventory (yes/no)\*

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).

#### **Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**Revision information** 

Regulatory Information: Risk Phrases - Labeling

GHS: Classification

SDS US

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