# LPS

# SAFETY DATA SHEET

# 1. Identification

Product identifier LPS® F-104 (Aerosol)

Other means of identification

Part Number 04920

Recommended use A solvent degreasing agent designed for removing tar, adhesives, grease, oil and other residues

from metal and other hard surfaces.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Manufacturer

Company name ITW Pro Brands
Address 4647 Hugh Howell Rd.
Tucker, GA 30084

Country (U.S.A.)

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 Sensitization, skin Category 1

Environmental hazards Not classified.

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May cause an

allergic skin reaction.

**Precautionary statement** 

**Prevention** Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Do not spray on an open

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use. Avoid breathing gas. Contaminated work clothing must not be allowed out of the workplace. Wear

protective gloves.

Response If on skin: Wash with plenty of water. Specific treatment (see this label). If skin irritation or rash

occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

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

well-ventilated place.

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

Hazard(s) not otherwise

classified (HNOC)

None known.

**Supplemental information** Not applicable.

# 3. Composition/information on ingredients

**Mixtures** 

 Material name: LPS® F-104 (Aerosol)
 SDS US

 04920 Version #: 01 Issue date: 08-10-2015
 1 / 10

Chemical name	Common name and synonyms	CAS number	%	
Distillates Petroleum Hydrotreated Light		64742-47-8	70 - 80	
1-Propoxy-2-Propanol		1569-01-3	5 - 10	
Propylene glycol monomethyl ether acetate		108-65-6	1 - 10	
d-limonene		5989-27-5	1 - 5	
Carbon Dioxide		124-38-9	1 - 3	

#### 4. First-aid measures

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 POISON CENTER or doctor/physician if you feel unwell.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while Skin contact

removing contaminated clothing 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.

Get medical attention if irritation develops and persists.

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

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

Irritant effects. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Defatting of the skin. Rash. Symptoms of overexposure can include shortness of breath,

drowsiness, headaches, confusion, decreased coordination, visual disturbances and vomiting, and

are reversible if exposure is stopped.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

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

# 5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

media

Dry chemical powder. Carbon dioxide (CO2). Water spray, fog or regular foam.

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

Specific hazards arising from

the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions Specific methods

Contents under pressure. Pressurized container may explode when exposed to heat or flame. Fire may produce irritating, corrosive and/or toxic gases.

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.

Move containers from fire area if you can do so without risk. Cool containers exposed to heat with

water spray and remove container, if no risk is involved. Use standard firefighting procedures and consider the hazards of other involved materials. Move

containers from fire area if you can do so without risk. Use water spray to cool unopened containers. In the event of fire and/or explosion do not breathe fumes.

General fire hazards Extremely flammable aerosol.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate personal protective equipment.

# Methods and materials for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

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. 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.

Never return spills in original containers for re-use.

#### **Environmental precautions**

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment.

#### 7. Handling and storage

# Precautions for safe handling

May be ignited by open flame. Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not breathe dust/fume/gas/mist/vapors/spray. Use only in well-ventilated areas. Do not get in eyes, on skin, on clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment.

Value

# Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Keep out of the reach of children.

# 8. Exposure controls/personal protection

#### Occupational exposure limits

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

Components	туре	value	
Carbon Dioxide (CAS 124-38-9)	PEL	9000 mg/m3	
,		5000 ppm	
<b>US. ACGIH Threshold Limit Value</b>	es		
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
		5000 ppm	
US. Workplace Environmental Ex	posure Level (WEEL) Guides		
Components	Туре	Value	
Propylene glycol monomethyl ether acetate (CAS 108-65-6)	TWA	50 ppm	

**Biological limit values** 

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

#### **Exposure guidelines**

#### US - California OELs: Skin designation

Propylene glycol monomethyl ether acetate (CAS Can be absorbed through the skin. 108-65-6)

# Appropriate 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.

#### Individual protection measures, such as personal protective equipment

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

Skin protection

**Hand protection** Chemical resistant gloves are recommended.

Avoid contact with clothing. Wear suitable protective clothing. Chemical resistant gloves. Other

No personal respiratory protective equipment normally required. Use a positive-pressure Respiratory protection

> air-supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate

protection.

Thermal hazards Not applicable.

General hygiene considerations

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.

# 9. Physical and chemical properties

Liquid. **Appearance** Physical state Gas. **Form** Aerosol.

Clear water-white Color Mild. Orange. Odor Odor threshold Not established Not applicable Melting point/freezing point Not established Initial boiling point and boiling 314.6 °F (157 °C)

range

104.0 °F (40.0 °C) Tag Closed Cup (dispensed liquid) Flash point

**Evaporation rate** 0.2 (BuAc = 1)Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

Flammability limit - lower

0.7%

(%)

Flammability limit - upper

6 %

Explosive limit - lower (%)

Not available. Not available. Explosive limit - upper (%) Vapor pressure 2 mm Hg @20°C

Vapor density 4.8 - 5.3Relative density Not available.

Solubility(ies)

Slightly soluble in water. Solubility (water)

< 1

Partition coefficient

(n-octanol/water)

> 442.4 °F (> 228 °C)

**Auto-ignition temperature Decomposition temperature** Not established **Viscosity** < 3 cSt @25°C

Other information

Heat of combustion > 30 kJ/gPercent volatile 100 %

0.77 - 0.79 @20°C Specific gravity

VOC (Weight %) 97.2 % per US State and Federal Consumer Product Regulations

**CARB** 

# 10. Stability and reactivity

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

**Chemical stability**Material is stable under normal conditions. **Possibility of hazardous**Hazardous polymerization does not occur.

reactions

Conditions to avoid Heat, flames and sparks. Avoid temperatures exceeding the flash point. Contact with incompatible

materials.

**Incompatible materials** Strong oxidizing agents.

Hazardous decomposition

products

Carbon oxides.

# 11. Toxicological information

# Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

Skin contact May cause sensitization by skin contact. Frequent or prolonged contact may defat and dry the

skin, leading to discomfort and dermatitis.

**Eye contact** Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms related to the physical, chemical and toxicological characteristics

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

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

#### Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components	Species	Test Results		
1-Propoxy-2-Propanol (CAS 1569-01-3)				
Acute				
Dermal				
LD50	Rabbit	> 2000 mg/kg		
		3775 mg/kg, 24 Hours		
		3.17 ml/kg, 24 Hours		
Oral				
LD50	Mouse	260 mg/kg		
	Rat	> 2000 mg/kg		
		2.83 ml/kg		
Distillates Petroleum Hydro	otreated Light (CAS 64742-47-8)			
Acute				
Dermal				
LD50	Rabbit	> 2000 mg/kg		
		> 2000 mg/kg, 24 Hours		
Inhalation				
LC50	Cat	> 6.4 mg/l, 6 Hours		
	Rat	> 7.5 mg/l, 6 Hours		
		> 4.3 mg/l, 4 Hours		
		> 0.1 mg/l, 8 Hours		
Oral				
LD50	Rat	> 5000 mg/kg		
d-limonene (CAS 5989-27-	.5)			
Acute				
Oral				
LD50	Mouse	5600 - 6600 mg/kg		

Components Species Test Results

> 2000 mg/kg

Propylene glycol monomethyl ether acetate (CAS 108-65-6)

Rat

**Acute**Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 5000 mg/kg

> 14.1 ml

Skin corrosion/irritation Not classified.

Serious eye damage/eye

irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** May cause sensitization by skin contact. Frequent or prolonged contact may defat and dry the

skin, leading to discomfort and dermatitis.

**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.

IARC Monographs. Overall Evaluation of Carcinogenicity

d-limonene (CAS 5989-27-5)

3 Not classifiable as to carcinogenicity to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

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

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways. Not likely, due to the form of the product.

**Chronic effects** Prolonged or repeated contact may cause drying, cracking, or irritation.

**Further information** None known.

12. Ecological information

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

Components Species Test Results

Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)

**Aquatic** 

Fish LC50 Rainbow trout, donaldson trout 2.9 mg/l, 96 hours

(Oncorhynchus mykiss)

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

**Persistence and degradability** Not inherently biodegradable.

Bioaccumulative potential Not available.

Partition coefficient n-octanol / water (log Kow)

 LPS® F-104 (Aerosol)
 < 1</td>

 1-Propoxy-2-Propanol
 0.621

 d-limonene
 4.232

Mobility in soil Readily absorbed into soil.

Other adverse effects None known.

# 13. Disposal considerations

**Disposal instructions**Contents under pressure. This material and its container must be disposed of as hazardous waste.

Do not discharge into drains, water courses or onto the ground. Dispose of contents/container in

accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable 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. Avoid discharge into water courses or onto the

ground.

**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 Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant No

Special precautions for user Not available.

Special provisions N82
Packaging exceptions 306
Packaging non bulk None
Packaging bulk None

**IATA** 

UN number UN1950

**UN proper shipping name** Aerosols, flammable (d-limonene, Naphtha)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

Environmental hazards Yes

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

Other information

Passenger and cargo Allowed.

aircraft

Cargo aircraft only Allowed.

**IMDG** 

UN number UN1950

**UN proper shipping name** Aerosols, flammable (d-limonene, Naphtha)

Transport hazard class(es)

Class 2.1 Subsidiary risk -Label(s) 2.1

Packing group Not applicable.

**Environmental hazards** 

Marine pollutant Yes
EmS F-D, S-U

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

Transport in bulk according to Not available.

Annex II of MARPOL 73/78 and

the IBC Code



IATA; IMDG



# 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)** 

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes Delayed Hazard - No

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

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

chemical

Yes

SARA 313 (TRI reporting)

Not regulated.

# Other federal regulations

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

Not regulated.

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

Not regulated.

Safe Drinking Water Act Not regulated.

(SDWA)

#### US state regulations

# US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

#### US. Massachusetts RTK - Substance List

Carbon Dioxide (CAS 124-38-9)

#### US. New Jersey Worker and Community Right-to-Know Act

Carbon Dioxide (CAS 124-38-9)

#### US. Pennsylvania Worker and Community Right-to-Know Law

Carbon Dioxide (CAS 124-38-9)

#### **US. Rhode Island RTK**

Not regulated.

#### **US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

#### **International Inventories**

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)	No
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

<sup>\*</sup>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, including date of preparation or last revision

08-10-2015 Issue date

Version # 01

United States & Puerto Rico

Disclaimer The information provided in this Safety Data Sheet is correct to the best of our knowledge,

Toxic Substances Control Act (TSCA) Inventory

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.

04920 Version #: 01 Issue date: 08-10-2015

Yes

#### **Revision Information**

Product and Company Identification: Product and Company Identification

Composition / Information on Ingredients: Disclosure Overrides

Toxicological information: Acute toxicity
Toxicological information: Corrosivity
Toxicological information: Eye contact
Toxicological information: Further information
Toxicological information: Respiratory sensitization

Toxicological information: Respiratory sensitization
Toxicological information: Specific target organ toxicity - repeated exposure
Toxicological information: Specific target organ toxicity - single exposure

Ecological information: Ecotoxicity

Ecological information: Other adverse effects

Regulatory Information: Other HazReg Data: North America

GHS: Classification