# PROBRANDS

### SAFETY DATA SHEET

#### 1. Identification

Product identifier LPS® LST (Aerosol)

Other means of identification

**Part Number** 01916, C01916

Recommended use An industrial penetrant designed to penetrate rust and loosen seized bolts and other equipment

damaged by corrosion.

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

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

1-703-527-3887

Website www.lpslabs.com

E-mail lpssds@itwprobrands.com

Supplier ITW Permatex Canada
1-35 Brownridge Road

Halton Hills, ON, L7G 0C6

Canada

1-800-241-8334

2. Hazard identification

Physical hazards Flammable aerosols Category 1

Gases under pressure Compressed gas

Health hazards Aspiration hazard Category 1

Environmental hazards Not classified.

Label elements



Signal word Danger

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

swallowed and enters airways.

**Precautionary statement** 

**Prevention** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use.

**Response** IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.

Storage Store locked up. Protect from sunlight. Store in a well-ventilated place. Do not expose to

temperatures exceeding 50°C/122°F.

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

Other hazards Combustible.

Supplemental information None.

#### 3. Composition/information on ingredients

**Mixtures** 

Material name: LPS® LST (Aerosol)

Chemical name	Common name and synonyms	CAS number	%
Distillates Petroleum Hydrotreated Light		64742-47-8	80 - 90
Distillates Petroleum Hydrotreated Med		64742-46-7	1 - 10
Carbon Dioxide		124-38-9	1 - 5
Benzenesulfonic Acid, Mono-c16-24-alkyl Derivs., Calciur Salts	n	70024-69-0	0.1 - 1
Distillates (petroleum), Hydrotreated Heavy Naphthenic		64742-52-5	0.41

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

#### 4. First-aid measures

**Inhalation** Move to fresh air. Call a physician if symptoms develop or persist.

**Skin contact** No adverse effects due to skin contact are expected.

**Eye contact**No specific first aid measures noted. **Ingestion**Not likely, due to the form of the product.

Most important Aspiration may cause pulmonary edema and pneumonitis.

symptoms/effects, acute and delayed

Indication of immediate medical attention and special

medical attention and special treatment needed

**General information** 

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

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

 $Water fog. \ Alcohol \ resistant \ foam. \ Dry \ chemical \ powder. \ Dry \ chemicals. \ Carbon \ dioxide \ (CO2).$ 

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

Specific hazards arising from the chemical

Contents under pressure. Pressurized container may explode when exposed to heat or flame. During fire, gases hazardous to health may be formed.

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.

Fire fighting equipment/instructions

In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. 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. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out.

Specific methods

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

General fire hazards

Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Many gases are heavier than air and will spread along ground and collect in low or confined areas (sewers, basements, tanks). Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material.

**Environmental precautions** 

Avoid discharge into drains, water courses or onto the ground.

#### 7. Handling and storage

#### Precautions for safe handling

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 smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Close valve after each use and when empty. Protect cylinders from physical damage; do not drag, roll, slide, or drop. When moving cylinders, even for short distances, use a cart (trolley, hand truck, etc.) designed to transport cylinders. Suck back of water into the container must be prevented. Do not allow backfeed into the container. Purge air from system before introducing gas. Use only properly specified equipment which is suitable for this product, its supply pressure and temperature. Contact your gas supplier if in doubt. Do not re-use empty containers. Avoid prolonged or repeated contact with skin. Avoid prolonged exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Observe good industrial hygiene practices.

## Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122°F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Cylinders should be stored upright, with valve protection cap in place, and firmly secured to prevent falling or being knocked over. Stored containers should be periodically checked for general condition and leakage.

#### 8. Exposure controls/personal protection

#### Occupational exposure limits

**ACGIH** 

Components	Туре	Value	Form
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
US. ACGIH Threshold Limit Valu	es		
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
Canada. Alberta OELs (Occupati	ional Health & Safety Code, Scl	hedule 1, Table 2)	
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	9000 mg/m3	
	TWA	9000 mg/m3 5000 ppm	
Canada. British Columbia OELs.	. (Occupational Exposure Limit	5000 ppm	occupational Health and
Canada. British Columbia OELs. Safety Regulation 296/97, as am Components	. (Occupational Exposure Limit	5000 ppm	ccupational Health and
Safety Regulation 296/97, as amo Components Carbon Dioxide (CAS	. (Occupational Exposure Limit ended)	5000 ppm	•
Safety Regulation 296/97, as ame	. (Occupational Exposure Limit ended) Type	5000 ppm s for Chemical Substances, O Value	•
Safety Regulation 296/97, as amo Components Carbon Dioxide (CAS	. (Occupational Exposure Limit ended) Type STEL	5000 ppm ss for Chemical Substances, O Value 15000 ppm	•
Safety Regulation 296/97, as ame Components  Carbon Dioxide (CAS 124-38-9)  Distillates Petroleum Hydrotreated Light (CAS	. (Occupational Exposure Limit ended)  Type  STEL  TWA  TWA	5000 ppm  Is for Chemical Substances, O  Value  15000 ppm  5000 ppm  200 mg/m3	Form
Safety Regulation 296/97, as ame Components  Carbon Dioxide (CAS 124-38-9)  Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	. (Occupational Exposure Limit ended)  Type  STEL  TWA  TWA	5000 ppm  Is for Chemical Substances, O  Value  15000 ppm  5000 ppm  200 mg/m3	Form
Safety Regulation 296/97, as ame Components  Carbon Dioxide (CAS 124-38-9)  Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)  Canada. Manitoba OELs (Reg. 2	. (Occupational Exposure Limit ended)  Type  STEL  TWA  TWA  TWA	5000 ppm as for Chemical Substances, O Value 15000 ppm 5000 ppm 200 mg/m3  And Health Act)	Form

Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)

Type Carbon Dioxide (CAS STEL 30000 ppm 124-38-9)

**TWA** 5000 ppm

Value

Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety)

Components Value Type Carbon Dioxide (CAS **STEL** 54000 mg/m3 124-38-9) 30000 ppm **TWA** 9000 mg/m3 5000 ppm

Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)

Components Value Type Carbon Dioxide (CAS 15 minute 30000 ppm 124-38-9) 8 hour 5000 ppm

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

**Exposure guidelines** 

Components

Canada - British Columbia OELs: Skin designation

Distillates Petroleum Hydrotreated Light Can be absorbed through the skin.

(CAS 64742-47-8)

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

Eye/face protection Wear safety glasses with side shields (or goggles).

Skin protection

Hand protection Wear appropriate chemical resistant gloves.

Wear suitable protective clothing. Other

Respiratory protection If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an

air-supplied respirator.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not 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

**Appearance** 

Physical state Gas.

**Form** Aerosol. Compressed gas.

Color Clear. Odor Vanilla. Not available. Odor threshold pН Not applicable Melting point/freezing point Not established Initial boiling point and boiling 383 °F (195 °C) range

174.2 °F (79.0 °C) Tag Closed Cup Flash point

< 0.7 BuAc **Evaporation rate** Flammability (solid, gas) Flammable gas.

Material name: LPS® LST (Aerosol)

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure < 0.1 mm Hg @ 20°C

Vapor density 4.7

Relative density Not available.

Solubility(ies)

Solubility (water) < 0.1 % Partition coefficient > 1

(n-octanol/water)

Auto-ignition temperatureNot establishedDecomposition temperatureNot establishedViscosityNot established

Other information

Specific gravity 0.79 - 0.81 @ 20°C

**VOC** 0 % per US State and Federal Consumer Product Regulations

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. 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

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious

chemical pneumonia.

Symptoms related to the physical, chemical and toxicological characteristics

Aspiration may cause pulmonary edema and pneumonitis.

#### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways.

Components Species Test Results

Benzenesulfonic Acid, Mono-c16-24-alkyl Derivs., Calcium Salts (CAS 70024-69-0)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Material name: LPS® LST (Aerosol)
01916, C01916 Version #: 03 Revision date: 02-18-2019 Issue date: 08-03-2016

SDS CANADA

Components **Species Test Results** Oral LD50 Rat > 2000 mg/kg Distillates (petroleum), Hydrotreated Heavy Naphthenic (CAS 64742-52-5) Acute **Dermal** LD50 Rabbit > 2000 mg/kg Oral LD50 Rat > 2000 mg/kg Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) **Acute Dermal** LD50 Rabbit > 2000 mg/kg Inhalation Vapor LC50 Rat > 4.5 mg/l, 4 Hours > 0.1 mg/l, 8 Hours Oral LD50 Rat > 5000 mg/kg Distillates Petroleum Hydrotreated Med (CAS 64742-46-7) **Acute Dermal** LD50 Rabbit > 2000 mg/kg, 24 Hours Oral LD50 Rat > 5000 mg/kg Prolonged skin contact may cause temporary irritation. Skin corrosion/irritation Direct contact with eyes may cause temporary irritation. Serious eye damage/eye 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. This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity Reproductive toxicity This product is not expected to cause reproductive or developmental effects. Not classified. Specific target organ toxicity single exposure Specific target organ toxicity -Not classified. repeated exposure May be fatal if swallowed and enters airways. **Aspiration hazard** Prolonged inhalation may be harmful. **Chronic effects** 12. Ecological information The product is not classified as environmentally hazardous. However, this does not exclude the **Ecotoxicity** 

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

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)

Persistence and degradability Bioaccumulative potential

Material name: LPS® LST (Aerosol) SDS CANADA Partition coefficient n-octanol / water (log Kow)

LPS® LST (Aerosol) > 1

Mobility in soil No data available. Other adverse effects None known.

#### 13. Disposal considerations

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

under pressure. Do not puncture, incinerate or crush. Dispose of contents/container in accordance

with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Local disposal regulations

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

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).

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

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal. Do not re-use empty containers.

#### 14. Transport information

**TDG** 

**UN number** UN1950

**UN** proper shipping name

AEROSOLS, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Packing group Not available.

**Environmental hazards** 

Special precautions for user Not available.

IATA

**UN** number UN1950

**UN** proper shipping name

Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk

Not available. Packing group

**Environmental hazards** Nο **ERG Code** 10L

Special precautions for user Not available.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

**IMDG** 

UN1950 **UN number AEROSOLS UN** proper shipping name

Transport hazard class(es)

Class 2 Subsidiary risk

Not available.

Not applicable.

**Environmental hazards** 

Packing group

Marine pollutant No F-D. S-U **EmS** 

Special precautions for user Not available.

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

the IBC Code

Material name: LPS® LST (Aerosol)

SDS CANADA

#### IATA; IMDG; TDG



General information

Avoid transport on vehicles where the load space is not separated from the driver's compartment. Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency. Before transporting product containers: Ensure that containers are firmly secured. Ensure cylinder valve is closed and not leaking. Ensure valve outlet cap nut or plug (where provided) is correctly fitted. Ensure valve protection device (where provided) is correctly fitted. Ensure adequate ventilation. Ensure compliance with applicable regulations.

#### 15. Regulatory information

Canadian regulations

This product has been classified in accordance with the hazard criteria of the HPR and the SDS contains all the information required by the HPR.

#### **Controlled Drugs and Substances Act**

Not regulated.

#### Export Control List (CEPA 1999, Schedule 3)

Not listed.

**Greenhouse Gases** 

Carbon Dioxide (CAS 124-38-9)

#### **Precursor Control Regulations**

Not regulated.

#### International regulations

#### **Stockholm Convention**

Not applicable.

#### **Rotterdam Convention**

Not applicable.

#### **Kyoto protocol**

Carbon Dioxide (CAS 124-38-9)

Listed.

#### **Montreal Protocol**

Not applicable.

#### **Basel Convention**

Not applicable.

#### 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)	No
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)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	No

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Country(s) or region Inventory name On inventory (yes/no)\*

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

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\*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

 Issue date
 08-03-2016

 Revision date
 02-18-2019

Version # 03

Disclaimer ITW Pro Brands cannot anticipate all conditions under which this information and its product, or

the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. 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** Hazard identification: Supplemental information

Composition / Information on Ingredients: Disclosure Overrides Composition/information on ingredients: Component information

Material name: LPS® LST (Aerosol) SDS CANADA