

SAFETY DATA SHEET

1. Identification

Product identifier LPS® LST (Aerosol)

Other means of identification

Part Number 01916

Recommended use of the chemical and restrictions on use

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

damaged by corrosion.

Restrictions on use Not available.

Details of manufacturer or importer

Manufacturer

Supplier Name MRO Chem Pty Ltd.

Address Level 19, 644 Chapel Street

South Yarra, Victoria 3141, Australia

Tel: +03 9823 6273

In Case of Emergency

Manufacturer

+04 3448 1129

Company name LPS Laboratories, a division of Illinois Tool Works, Inc. 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.) **Address**

http://www.lpslabs.com Website sds@lpslabs.com E-mail

2. Hazard(s) identification

Classification of the hazardous chemical

Physical hazards Flammable aerosols Category 1

> Gases under pressure Compressed gas

Health hazards Aspiration hazard Category 1

Environmental hazards Not classified.

Label elements, including precautionary statements

Hazard symbol(s)



Health

hazard

Signal word Danger

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

Gas cylinder

swallowed and enters airways.

Precautionary statement(s)

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

flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce Response

vomiting.

Flame

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

temperatures exceeding 50 °C/122 °F.

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

Other hazards which do not result in classification

None known.

Supplemental information

None.

3. Composition/information on ingredients

Mixture

Identity of chemical ingredients	CAS number and other unique identifiers	Concentration of ingredients
Distillates Petroleum, Hydroteated Light	64742-47-8	90 - 100
Carbon Dioxide	124-38-9	1 - 5
Distillates Petroleum Hydrotreated Heavy	64742-54-7	< 1

4. First-aid measures

Description of necessary first aid measures

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

difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.

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

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

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.

Personal protection for first-aid

responders

Ingestion

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Call a POISON CENTER or doctor/physician if you feel unwell.

Symptoms caused by exposure Dermatitis. Rash. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting. Skin irritation. May cause redness and pain.

Medical attention and special

treatment

Provide general supportive measures and treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

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.

Powder. Alcohol resistant foam. Water. Water spray. Dry chemicals. Carbon dioxide (CO2).

Special protective equipment and precautions for fire

fighters

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.

Hazchem code 2Y E

General fire hazards

Extremely flammable aerosol.

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. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. 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. For personal protection, see section 8 of the SDS.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

SDS.

Environmental precautions

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

Material name: LPS® LST (Aerosol)

Methods and materials for containment and cleaning up

Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Isolate area until gas has dispersed. Use water spray to reduce vapors or divert vapor cloud drift. Scoop up used absorbent into drums or other appropriate container. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.

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. 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

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. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Keep out of the reach of children.

8. Exposure controls and personal protection

Control parameters

Follow standard monitoring procedures.

Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Occupational exposure limits

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
,		30000 ppm	
	TWA	22500 mg/m3	
		12500 ppm	
Australia. OELs. (Adopted Nation Environment)	nal Exposure Standards for Atı	mospheric Contaminants in the	ne Occupational
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	54000 mg/m3	
		30000 ppm	
	TWA	22500 mg/m3	
		12500 ppm	
ACGIH			
Components	Туре	Value	Form
Distillates Petroleum, Hydroteated Light (CAS 64742-47-8) US. ACGIH Threshold Limit Valu	TWA	5 mg/m3	Oil mist
Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	30000 ppm	
	TWA	5000 ppm	
UK. EH40 Workplace Exposure L	imits (WELs)	.,	
Components	Type	Value	
Carbon Dioxide (CAS 124-38-9)	STEL	27400 mg/m3	
	TWA	15000 ppm 9150 mg/m3 5000 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds

in the Work Area (DFG)

Components	Туре	Value	
Carbon Dioxide (CAS 124-38-9)	TWA	9100 mg/m3	
		5000 ppm	
Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)	TWA	140 mg/m3	
•		20 ppm	

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

Exposure guidelines No exposure standards allocated.

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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, for example personal protective equipment (PPE)

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

Skin protection

Hand protection Chemical resistant gloves are recommended.

Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Not applicable.

When using, do not eat, drink or smoke. Always observe good personal hygiene measures, such Hygiene measures

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. Color Clear Odor Vanilla Not available. Odor threshold pН Not applicable

Not established Melting point/freezing point Initial boiling point and boiling

range

383 °F (195 °C)

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

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

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

Flammability limit - upper

(%)

Not available.

Not available. **Explosive limit - lower (%)** Not available. Explosive limit - upper (%)

< 0.1 mm Hg @ 20 ℃ Vapor pressure

4.7 Vapor density

Not available. Relative density

Solubility(ies)

< 0.1 % Solubility (water)

Partition coefficient > 1

(n-octanol/water)

Auto-ignition temperatureNot establishedDecomposition temperatureNot establishedViscosityNot established

Other physical and chemical parameters

 $\begin{array}{ll} \mbox{Heat of combustion} & > 30 \mbox{ kJ/g} \\ \mbox{Percent volatile} & 96 - 99 \mbox{ \%} \\ \end{array}$

Specific gravity 0.79 - 0.81 @ 20 ℃

VOC (Weight %) 0 % per US State and Federal Consumer Product Regulations

10. Stability and reactivity

ReactivityThe 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

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

Incompatible materials Strong oxidizing agents.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on possible routes of exposure

Ingestion Harmful if swallowed. May be fatal if swallowed and enters airways.

Inhalation Prolonged inhalation may be harmful.

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.

Symptoms related to exposure Irritating to eyes, respiratory system and skin. Symptoms may include stinging, tearing, redness,

swelling, and blurred vision. Exposure may cause temporary irritation, redness, or discomfort.

Acute toxicity Based on available data, the classification criteria are not met.

Components Species Test Results

Distillates Petroleum Hydrotreated Heavy (CAS 64742-54-7)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Rat > 2.5 mg/l

Oral

LD50 Rat > 2000 mg/kg

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

LC50 Cat > 6.4 mg/l
Rat > 0.1 mg/l

Oral

LD50 Rat > 5000 mg/kg

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. **Serious eye damage/irritation** Direct contact with eyes may cause temporary irritation.

Material name: LPS® LST (Aerosol)

SDS AUSTRALIA

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

Based on available data, the classification criteria are not met. Reproductive toxicity Specific target organ toxicity -Based on available data, the classification criteria are not met.

single exposure

Specific target organ toxicity -

Based on available data, the classification criteria are not met.

repeated exposure

Aspiration hazard May be fatal if swallowed and enters airways.

Chronic effects Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity Ecological injuries are not known or expected under normal use.

Components **Test Results Species**

Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)

Aquatic

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

(Oncorhynchus mykiss)

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential Partition coefficient n-octanol / water (log Kow)

LPS® LST (Aerosol)

Mobility in soil Readily absorbed into soil. The product is immiscible with water and will spread on the water

surface.

None known. Other adverse effects

13. Disposal considerations

Disposal methods Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush.

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

Residual waste 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. Do not re-use empty containers.

14. Transport information

ADG

UN number 1950

UN proper shipping name **AEROSOLS**

Transport hazard class(es) Class

2 Subsidiary risk

Packing group Not applicable.

Environmental hazards No Hazchem code 2YE

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

RID

787

UN number

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 No

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

IATA

UN number 1950

UN proper shipping name Aerosols, flammable

Transport hazard class(es)

Class 2.1 Subsidiary risk -

Packing group Not applicable.

Environmental hazards No **ERG Code** 101

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

Other information

Passenger and cargo

Allowed.

Not available.

aircraft

Cargo aircraft only Allowed.

IMDG

UN number 1950

UN proper shipping name AEROSOLS

Transport hazard class(es)

Class 2 Subsidiary risk -

Packing group Not applicable.

Environmental hazards

Marine pollutant No EmS F-D, S-U

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

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

the IBC Code

ADG; IATA; IMDG; RID



15. Regulatory information

Safety, health and environmental regulations

National regulations This Material Safety Data Sheet was prepared in accordance with the Australia National Code of

Practice for the Preparation of Material Safety Data Sheets (NOHSC: 2011.)

Australia Medicines & Poisons Appendix A

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix B

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix C

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix D

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix E

Poisons schedule number not allocated.

Material name: LPS® LST (Aerosol)

Australia Medicines & Poisons Appendix F

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix G

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix H

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix I

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix J

Poisons schedule number not allocated.

Australia Medicines & Poisons Appendix K

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 2

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 3

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 4

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 5

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 6

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 7

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 8

Poisons schedule number not allocated.

Australia Medicines & Poisons Schedule 9

Poisons schedule number not allocated.

High Volume Industrial Chemicals (HVIC)

Carbon Dioxide (CAS 124-38-9)

Distillates Petroleum Hydrotreated Heavy (CAS

64742-54-7)

Distillates Petroleum, Hydroteated Light (CAS

64742-47-8)

10000 - 99999 tonnes See the regulation for additional information.

1000 - 9999 tonnes See the regulation for additional information.

100000 - 999999 tonnes See the regulation for additional information.

Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)

Not listed

National Pollutant Inventory (NPI) substance reporting list

Not listed.

Prohibited Carcinogenic Substances

Not regulated.

Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)

Not listed

Resricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)

Not listed.

Restricted Carcinogenic Substances

Not regulated.

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

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Carbon Dioxide (CAS 124-38-9)

Listed.

Montreal Protocol

Not applicable.

Material name: LPS® LST (Aerosol)

SDS AUSTRALIA

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)	No
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
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

16. Other information

Issue date 07-18-2014

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.

^{*}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).