SAFETY DATA SHEET

1. Identification

Product identifier LPS® ChainMate

Other means of identification

Part Number 02416, C02416

Recommended use A spray lubricant designed to penetrate chains and wire ropes, displace moisture and provide long

lasting lubrication under high loads and humid conditions.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

ITW Pro Brands Company name **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 ITW Permatex Canada **Supplier** 1-35 Brownridge Road

Halton Hills, ON, L7G 0C6

Canada

1-800-241-8334

2. Hazard(s) identification

Physical hazards Flammable aerosols Category 1

> Gases under pressure Liquefied gas

Health hazards Not classified. **Environmental hazards** Not classified.

Label elements



Signal word

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

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 Wash hands after handling.

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

well-ventilated place.

Dispose of waste and residues in accordance with local authority requirements. **Disposal**

Other hazards None known.

Supplemental information None.

3. Composition/information on ingredients

Mixtures

Material name: LPS® ChainMate SDS CANADA 1/9

Chemical name	Common name and synonyms	CAS number	%
residual oils, petroleum, solvent refined		64742-01-4	60 - 70
ACETONE		67-64-1	< 10
Distillates Petroleum, Hydroteated Light		64742-47-8	1 - 5
Petroleum Oil		64741-88-4	1 - 5

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

4. First-aid measures

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

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

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

Most important symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically.

Ensure that medical personnel are aware of the material(s) involved, and take precautions to General information

Direct contact with eyes may cause temporary irritation.

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing

media

Specific hazards arising from the chemical

Special protective equipment and precautions for firefighters

Fire fighting

equipment/instructions

Specific methods

General fire hazards

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

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

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

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

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. 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.

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.

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. For personal protection, see section 8 of the SDS.

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. 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. For waste disposal, see section 13 of the SDS.

Environmental precautions

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

Material name: LPS® ChainMate SDS CANADA

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 exposure. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

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. Stored containers should be periodically checked for general condition and leakage. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

ACGIH Components	Туре	Value	Form
Distillates Petroleum, Hydroteated Light (CAS 64742-47-8)	TWA	5 mg/m3	Oil mist
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	
ACETONE (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Canada. Alberta OELs (Occupation	onal Health & Safety Code, Sch	nedule 1, Table 2)	
Components	Туре	Value	
ACETONE (CAS 67-64-1)	STEL	1800 mg/m3	
(,		750 ppm	
	TWA	1200 mg/m3	
		500 ppm	
Safety Regulation 296/97, as ame Components	nded) Type	Value	Form
ACETONE (CAS 67-64-1)	STEL	500 ppm	
,	TWA	250 ppm	
Distillates Petroleum,	TWA	200 mg/m3	Non-aerosol.
Hydroteated Light (CAS 64742-47-8)			
	7/2006, The Workplace Safety	And Health Act)	
64742-47-8)	7/2006, The Workplace Safety Type	And Health Act) Value	
64742-47-8) Canada. Manitoba OELs (Reg. 21	· · · · · · · · · · · · · · · · · · ·	•	
64742-47-8) Canada. Manitoba OELs (Reg. 21 Components	Туре	Value	
64742-47-8) Canada. Manitoba OELs (Reg. 21 Components	Type STEL TWA	Value 500 ppm 250 ppm	
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1)	Type STEL TWA	Value 500 ppm 250 ppm	
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control of Components)	Type STEL TWA of Exposure to Biological or Cl	Value 500 ppm 250 ppm hemical Agents) Value	
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o	Type STEL TWA of Exposure to Biological or Cl Type	Value 500 ppm 250 ppm	
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control of Components) ACETONE (CAS 67-64-1)	Type STEL TWA of Exposure to Biological or Cl Type STEL TWA	Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm	nvironment)
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control of Components)	Type STEL TWA of Exposure to Biological or Cl Type STEL TWA	Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm	nvironment)
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control of Components) ACETONE (CAS 67-64-1) Canada. Quebec OELs. (Ministry Components)	Type STEL TWA of Exposure to Biological or Cl Type STEL TWA of Labor - Regulation Respect	Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm ing the Quality of the Work E Value	nvironment)
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control of Components) ACETONE (CAS 67-64-1) Canada. Quebec OELs. (Ministry)	Type STEL TWA of Exposure to Biological or Cl Type STEL TWA of Labor - Regulation Respect Type	Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm ing the Quality of the Work E Value 2380 mg/m3	nvironment)
64742-47-8) Canada. Manitoba OELs (Reg. 21) Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control of Components) ACETONE (CAS 67-64-1) Canada. Quebec OELs. (Ministry Components)	Type STEL TWA of Exposure to Biological or Cl Type STEL TWA of Labor - Regulation Respect Type	Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm ing the Quality of the Work E Value	nvironment)

Material name: LPS® ChainMate SDS CANADA 3/9

Biological limit values

ACGIH Biological Exposure Indices

Components	Value	Determinant	Specimen	Sampling Time
ACETONE (CAS 67-64-1)	25 mg/l	Acetone	Urine	*

^{* -} For sampling details, please see the source document.

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. Suitable gloves can be recommended by the glove

supplier.

Other Wear suitable protective clothing.

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.

Color Dark grey. Black.

Odor Slight petroleum odor.

Odor threshold Not established
pH Not applicable
Melting point/freezing point Not established
Initial boiling point and boiling
Not established

range

Flash point < -4.0 °F (< -20.0 °C) Tag Closed Cup

Evaporation rate Not established
Flammability (solid, gas) Flammable gas.
Upper/lower flammability or explosive limits

Flammability limit - lower

Not established

(%)

Flammability limit - upper

(%)

Not established

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure 35 psi @ 75° F

Vapor density > 1

Relative density Not available.

Solubility(ies)

Solubility (water) 16 % (Soluble)

Partition coefficient Not established

(n-octanol/water)

Auto-ignition temperature Not established

Decomposition temperature Not established

Viscosity 150 cP @ 75° F / 23.9° C

Material name: LPS® ChainMate SDS CANADA

Other information

Density 7.32

Explosive propertiesNot explosive.Heat of combustion> 30 kJ/gOxidizing propertiesNot oxidizing.

Percent volatile 17 %

Percent volatile 110 °F (43.33 °C)

temperature

Specific gravity 0.88 @ 20°C

VOC 22.33 % per US State and Federal Consumer Prodcut Regulations

10. Stability and reactivity

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

Chemical stabilityMaterial is stable under normal conditions.Possibility of hazardousHazardous polymerization does not occur.

reactions

Conditions to avoid Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials Acids. Strong oxidizing agents.

Hazardous decomposition Carbon oxides.

products

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 Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

ACETONE (CAS 67-64-1)

Acute Dermal

LD50 Rabbit > 20 ml/kg, 24 Hours

Inhalation

Vapor

LC50 Rat 50.1 mg/l, 4 Hours

Oral

LD50 Rat 9.1 ml/kg

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

<u>Acute</u>

Dermal

LD50 Rabbit > 2000 mg/kg

Inhalation

Vapor

LC50 Rat > 4.5 mg/l, 4 Hours

Oral

LD50 Rat > 5000 mg/kg

Material name: LPS® ChainMate SDS CANADA

Components **Species Test Results**

Petroleum Oil (CAS 64741-88-4)

Acute Dermal

LD50 Rabbit > 2000 mg/kg

> 2000 mg/kg, 24 Hours

Inhalation

Aerosol

LC50 Rat 2.18 mg/l, 4 Hours

Oral

LD50 Rat > 2000 mg/kg

residual oils, petroleum, solvent refined (CAS 64742-01-4)

Acute

Dermal

LD50 Rabbit > 2000 mg/kg

> 2000 mg/kg, 24 Hours

Inhalation

Aerosol

LC50 Rat 2.18 mg/l, 4 Hours

Oral

LD50 Rat > 2000 mg/kg

Skin corrosion/irritation Serious eve damage/eve

irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary 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

ACETONE (CAS 67-64-1) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

ACETONE (CAS 67-64-1) Not classifiable as a human carcinogen.

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 Not likely, due to the form of the product.

Chronic effects Prolonged inhalation may be harmful.

Further information None known.

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	
ACETONE (CAS 67-6	64-1)			
Aquatic				
Crustacea	EC50	Water flea (Daphnia magna)	10294 - 17704 mg/l, 48 hours	
Fish	LC50	Rainbow trout, donaldson trout (Oncorhynchus mykiss)	4740 - 6330 mg/l, 96 hours	

Components **Test Results Species**

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

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

(Oncorhynchus mykiss)

Persistence and degradability Not inherently biodegradable.

Bioaccumulative potential

Partition coefficient n-octanol / water (log Kow)

LPS® ChainMate < 1 **ACETONE** -0.24

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

13. Disposal considerations

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

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

with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

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

disposal company.

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).

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 applicable.

Environmental hazards

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

IATA

UN number UN1950

UN proper shipping name

Transport hazard class(es)

Aerosols, flammable

Class 2.1 Subsidiary risk

Not applicable. Packing group

Environmental hazards No. **ERG Code** 10L

Other information

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

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

UN number UN1950

UN proper shipping name

Transport hazard class(es)

AEROSOLS, flammable

Class 2.1 Subsidiary risk

Material name: LPS® ChainMate SDS CANADA Packing group

Environmental hazards

Not applicable.

Marine pollutant

No

F-D, S-U **EmS**

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 Not applicable.

the IBC Code

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

Controlled Drugs and Substances Act

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed.

Greenhouse Gases

Not listed.

Ontario. Toxic Substances. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)

ACETONE (CAS 67-64-1)

Precursor Control Regulations

Class B **ACETONE (CAS 67-64-1)**

International regulations

Stockholm Convention

Not applicable.

Rotterdam Convention

Not applicable.

Kyoto protocol

Not applicable.

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)	No
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No

Material name: LPS® ChainMate SDS CANADA Country(s) or region Inventory name On inventory (yes/no)* Europe European Inventory of Existing Commercial Chemical Substances (EINECS) European List of Notified Chemical Substances (ELINCS) Europe 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 No (PICCS)

country(s).

16. Other information

Issue date 11-02-2016

Version # 01

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

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.

Product and Company Identification: Product Uses **Revision information**

Composition / Information on Ingredients: Ingredients Physical & Chemical Properties: Multiple Properties Ecological Information: Ecotox Property Data

Transport Information: Material Transportation Information

Regulatory Information: United States

HazReg Data: North America

GHS: Classification

Material name: LPS® ChainMate SDS CANADA 9/9

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