

SAFETY DATA SHEET

1. Identification

1. Identification		
Product identifier	LPS [®] ChainMate	
Other means of identification		
Part Number	02416, C02416	
Recommended use	A spray lubricant designed to pen lasting lubrication under high load	etrate chains and wire ropes, displace moisture and provide long Is and humid conditions.
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(s) identification	1	
Physical hazards	Flammable aerosols	Category 1
	Gases under pressure	Liquefied gas
Health hazards	Not classified.	
Environmental hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Extremely flammable aerosol. Co	ntains gas under pressure; may explode if heated.
Precautionary statement		
Prevention		s, sparks, open flames and other ignition sources. No smoking. other ignition source. Do not pierce or burn, even after use.
Response	Wash hands after handling.	
Storage	Store in a well-ventilated place. P 50°C/122°F.	rotect from sunlight. Do not expose to temperatures exceeding

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

 Other hazards
 None known.

Supplemental information None known.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Residual Oils, Petroleum, Solvent Refined		64742-01-4	60 - 70
Petroleum Gases, Liquefied, Sweetened		68476-86-8	20 - 30
ACETONE		67-64-1	< 10
Distillates Petroleum Hydrotreated 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

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 symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
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. 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. 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. 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.
General fire hazards	Extremely flammable aerosol. Contents under pressure. Pressurized container may explode when exposed to heat or flame.
6. Accidental release meas	sures
Developed and souther a	Keen unnecessary necessary keen needs and the set of a still leads the set of

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. 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. 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. 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 Value	s		
Components	Туре	Value	
ACETONE (CAS 67-64-1)	STEL	500 ppm	
	TWA	250 ppm	
Canada. Alberta OELs (Occupatio	nal 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	
ACETONE (CAS 67-64-1)	STEL TWA	500 ppm 250 ppm	
ACETONE (CAS 67-64-1) Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)			Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8)	TWA TWA	250 ppm 200 mg/m3	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS	TWA TWA	250 ppm 200 mg/m3	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217	TWA TWA 7/2006, The Workplace Safety	250 ppm 200 mg/m3 And Health Act)	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components	TWA TWA 7/2006, The Workplace Safety Type	250 ppm 200 mg/m3 And Health Act) Value	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components	TWA TWA 7/2006, The Workplace Safety Type STEL TWA	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o	TWA TWA 7/2006, The Workplace Safety Type STEL TWA	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1)	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm 250 ppm	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o Components	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl Type	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm hemical Agents) Value	Non-aerosol.
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o Components ACETONE (CAS 67-64-1)	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl Type STEL TWA	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm	
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o Components	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl Type STEL TWA	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm	
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o Components ACETONE (CAS 67-64-1) Canada. Quebec OELs. (Ministry o Components	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl Type STEL TWA of Labor - Regulation respecti	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm 500 ppm	
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o Components ACETONE (CAS 67-64-1) Canada. Quebec OELs. (Ministry o	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl Type STEL TWA of Labor - Regulation respecti Type	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm 500 ppm ng occupational health and sa Value 2380 mg/m3	
Distillates Petroleum Hydrotreated Light (CAS 64742-47-8) Canada. Manitoba OELs (Reg. 217 Components ACETONE (CAS 67-64-1) Canada. Ontario OELs. (Control o Components ACETONE (CAS 67-64-1) Canada. Quebec OELs. (Ministry o Components	TWA TWA 7/2006, The Workplace Safety Type STEL TWA f Exposure to Biological or Cl Type STEL TWA of Labor - Regulation respecti Type	250 ppm 200 mg/m3 And Health Act) Value 500 ppm 250 ppm hemical Agents) Value 750 ppm 500 ppm 500 ppm ng occupational health and sa Value	

Biological limit values ACGIH Biological Exposure	e Indices			
Components \	/alue	Determinant	Specimen	Sampling Time
ACETONE (CAS 67-64-1) 2	25 mg/l	Acetone	Urine	*
* - For sampling details, pleas	se see the source docu	iment.		
Exposure guidelines				
Canada - British Columbia	OELs: Skin designati	on		
Distillates Petroleum Hyd 64742-47-8)	drotreated Light (CAS	Can be a	absorbed throug	h the skin.
Appropriate engineering controls	should be matched t or other engineering	conditions. If appl controls to maintair	icable, use proc n airborne levels	bur) should be used. Ventilation rates ess enclosures, local exhaust ventilation, below recommended exposure limits. If porne levels to an acceptable level.
Individual protection measures	, such as personal pr	otective equipment	t	
Eye/face protection	Wear safety glasses	with side shields (o	r goggles).	
Skin protection				
Hand protection	Wear appropriate ch supplier.	nemical resistant glo	ves. Suitable glo	oves can be recommended by the glove
Other	Wear suitable protect	ctive clothing.		
Respiratory protection	If permissible levels air-supplied respirate		IIOSH mechanio	cal filter / organic vapor cartridge or an
Thermal hazards	Wear appropriate th	ermal protective clo	thing, when nec	essary.
General hygiene considerations		aterial and before ea	ating, drinking, a	nal hygiene measures, such as washing and/or smoking. Routinely wash work nts.

9. Physical and chemical properties

Appearance	
Physical state	Gas.
Form	Aerosol.
Color	Dark grey. Black.
Odor	Slight petroleum odor.
Odor threshold	Not established
рН	Not applicable
Melting point/freezing point	Not established
Initial boiling point and boiling range	Not established
Flash point	< -4.0 °F (< -20.0 °C) Tag Closed Cup
Evaporation rate	Not established
Flammability (solid, gas)	Flammable gas.
Upper/lower flammability or exp	losive 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 coefficie (n-octanol/water)	
Auto-ignition tem	perature Not established
Decomposition te	emperature Not established
Viscosity	150 cP @ 75° F / 23.9° C
Other information	1
Density	7.32
Explosive pr	operties Not explosive.
Heat of comb	pustion > 30 kJ/g
Oxidizing pro	operties Not oxidizing.
Percent vola	tile 17 %
Percent volation temperature	tile 110 °F (43.33 °C)
Specific grav	ity 0.88 @ 20ºC
VOC	22.33 % per US State and Federal Consumer Prodcut Regulations
10. Stability a	nd reactivity
Depativity	The product is stable and near reactive under permal conditions of use, storage and transport

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 reactions	Hazardous polymerization does not occur.
Conditions to avoid	Heat. Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Acids. 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	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	
Distillates Petroleum Hydro	otreated Light (CAS 64742-47-8)		
<u>Acute</u>			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation Vapor			
LC50	Rat	> 4.5 mg/l, 4 Hours	
Mineral Oil (CAS 64742-65	5-0)		
Acute			
Dermal			
LD50	Rabbit	> 2000 mg/kg	
Inhalation			
LC50	Rat	> 3.9 mg/l, 4 Hours	
Oral			
LD50	Rat	> 2000 mg/kg	

Components	Species		Test Results	
Petroleum Oil (CAS 64741-88-4)				
<u>Acute</u>				
Dermal				
LD50	Rabbit		> 2000 mg/kg	
Inhalation	_			
LC50	Rat		> 3.9 mg/l, 4 Hours	
Oral			"	
LD50	Rat		> 2000 mg/kg	
Residual Oils, Petroleum, Solven	t Refined (CAS	S 64742-01-4)		
Acute				
Dermal	Rabbit		2000 mg/kg	
LD50	Rabbil		> 2000 mg/kg	
Oral	Det		2000 mg/kg	
LD50	Rat		> 2000 mg/kg	
Skin corrosion/irritation	-	skin contact may cause temporary irritat		
Serious eye damage/eye rritation	Direct conta	Direct contact with eyes may cause temporary irritation.		
	-			
Respiratory or skin sensitizatio Respiratory sensitization		ratory sensitizer		
Skin sensitization	Not a respiratory sensitizer.			
Germ cell mutagenicity	-	This product is not expected to cause skin sensitization. No data available to indicate product or any components present at greater than 0.1% are		
	mutagenic or genotoxic.			
Carcinogenicity	This produc	ct is not considered to be a carcinogen b	by IARC, ACGIH, NTP, or OSHA.	
ACGIH Carcinogens				
ACETONE (CAS 67-64-	1)	A4 Not classifiable	as a human carcinogen.	
Canada - Manitoba OELs: c	-	ty		
ACETONE (CAS 67-64-	,		a human carcinogen.	
Reproductive toxicity	This produc	ct is not expected to cause reproductive	or developmental effects.	
Specific target organ toxicity - single exposure	Not classified.			
Specific target organ toxicity - repeated exposure	Not classifi	ed.		
Aspiration hazard	Not likely, c	due to the form of the product.		
Chronic effects	Prolonged	inhalation may be harmful.		
Further information	None know	None known.		
12. Ecological information	n			
U			zardous. However, this does not exclude the	
Ecotoxicity			armful or damaging effect on the environment	
Components	1 5	Species	Test Results	
ACETONE (CAS 67-64-1)		•		
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	
Distillates Petroleum Hydrotr	eated Light (C	AS 64742-47-8)		
Aquatic	0 - (0	,		
Fish	LC50	Rainbow trout,donaldson trout (Oncorhynchus mykiss)	2.9 mg/l, 96 hours	
Persistence and degradability	Not inherer	ntly biodegradable.		
sisistenee and degradability	1.0011110101	, s.cuogiaaabioi		

Partition coefficient n-octa	nol / water (log Kow)	
LPS [®] ChainMate		> 1
ACETONE		-0.24
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.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
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	Since emptied containers may retain product residue, follow label warnings even after container is 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

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	No
Special precautions for user	Not available.
ΙΑΤΑ	
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	10L
Special precautions for user	Not available.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	Allowed with restrictions.
Cargo aircraft only	Allowed with restrictions.
UN number UN proper shipping name	UN1950 AEROSOLS, flammable
Transport hazard class(es)	ALI1000L0, Ilaminable
Class	2.1
Subsidiary risk	-
Packing group	Not available.
Environmental hazards	
Marine pollutant	Νο
EmS	F-D, S-U
Special precautions for user	
Transport in bulk according to	Not applicable.
Annex II of MARPOL 73/78 and	
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		
Canada, as amended	Guidelines for Volatile Organic Compounds in Consumer Products.	CEPA 1999. Environment
ACETONE (CAS 67-64 Controlled Drugs and Sub		
Not regulated. Export Control List (CEPA	1999. Schedule 3)	
Not listed.		
Greenhouse Gases		
Not listed.		
Ontario. Toxic Substances	s. Toxic Reduction Act, 2009. Regulation 455/09 (July 1, 2011)	
ACETONE (CAS 67-64		
Precursor Control Regulat		
ACETONE (CAS 67-64	-1) Class B	
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
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

Country(s) or region	Inventory name	On inventory (yes/no)*
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Toxic Chemical Substances (TCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
	nents of this product comply with the inventory requirements administered by the gov components of the product are not listed or exempt from listing on the inventory adr	
16. Other information		
Issue date	11-02-2016	
Version #	01	
Disclaimer	ITW Pro Brands cannot anticipate all conditions under which this informa the products of other manufacturers in combination with its product, may responsibility to ensure safe conditions for handling, storage and disposa assume liability for loss, injury, damage or expense due to improper use.	be used. It is the user's all of the product, and to

Product and Company Identification: Product Uses

Regulatory Information: United States

HazReg Data: North America

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

Transport Information: Material Transportation Information

specified in the text.

GHS: Classification

Revision information

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