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	Section	1 • Product and Company Identi	ification	
Product Name:	LPS® LST			
Part Number(s):	01916 (aeroso	ol), 01928, 01905, 01955, C01916 (aeroso	bl), C01928, C01905, C019	955
Chemical Name:	Petroleum Dis	tillates		
Product Use:	An industrial penetrant designed to penetrate rust and loosen seized bolts and other equipment damaged by corrosion.			
Manufacturer Information:	LPS Laborato TEL: FAX:	ries, 4647 Hugh Howell Road, Tucker, GA USA & Canada: 1 800 241-8334 Outside USA and Canada: +1 770 243 USA & Canada: 1 800 543-1563 Outside USA and Canada: +1 770 243	3-8800	
Emergency Telephone Number:	Chemtrec:	USA & Canada: 1 800 424-9300 Outside USA and Canada: +1 703 52	7-3887	
Website:	http://www.lps	labs.com		
Section 2 • Hazards Identification				

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Emergenc	Emergency Overview:					
Aerosol:	DANGER: Flamm	R: Flammable. Contents under pressure. Harmful or fatal if swallowed.				
Bulk:	DANGER: Combu	ustible. Keep away from heat and flar	ne. Harmful or fatal	if swallowed.		
Primary ro	oute(s) of entry:	Skin and eye contact	. Inhalation.			
Potential A	Acute Health Effec	ts:				
	Eyes:	Irritating to eyes.				
	Skin:	Repeated exposure may cause skin dryness or cracking.				
In	Inhalation: Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache.					
h	ngestion:	ion: Product has a low order of acute oral toxicity, but ingestion of large quantities may cause nausea, vomiting, and gastrointestina irritation. May cause injury if aspirated into lungs.			stinal	
Potential	Chronic Health Eff	ects:				
Carcinoge	enic Effects:	NTP: No	IARC: No	OSHA: No	ACGIH: No	
Mutagenio	c Effects:	None				
Teratogen	nic Effects:	None				
Target Org	gans:	None				



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#### Medical conditions aggravated by exposure:

Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.

#### Signs and Symptoms

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

	Section 3 • Composition	/ Information on Ingredients	5
	Component	CASRN	Weight Percent
	Distillates (Petroleum), Hydrotreated Light	64742-47-8	80 - 90%
	Distillates (Petroleum), Hydrotreated Middle	64742-46-7	10 - 20%
	Carbon Dioxide (aerosol only)	124-38-9	1 - 5%
	Section 4 • Fin	rst Aid Measures	
Eyes:	Check for and remove contact lenses. If irritation or redn minutes. Hold eyelids apart to ensure complete irrigation immediately.		
Skin:	Remove contaminated shoes and clothing. Clean affected attention if irritation persists.	d area thoroughly with mild soap and	I water. DO NOT use ointments. Seek medical

- Inhalation: Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion: DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. DO NOT leave victim unattended. Seek medical attention immediately.



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	Sectio	on 5 • Fire Fighting Measur	es	
Products of Combustion:	Carbon monoxide a	and carbon dioxide.		
General Fire Hazards:	High heat will caus	e product to boil, evolving vapor tha	t could cause explosive rup	oture of closed containers.
Firefighting media:	LARGE FIRE: Use	DRY chemical powder. CO2, water spray, fog or foam. Co auto-ignition or explosions.	ool containing vessels with v	vater jet in order to prevent
Sensitivity to Impact:	None	Sensitivity to Static Discharg	e: None	
Protection Clothing (Fire):	Wear protective clo contained breathing	thing and equipment suitable for th g apparatus.	e surrounding fire, including	g helmet, face mask, and self-

#### Special Remarks on Explosion Hazards:

High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers. Aerosols may explode upon heating, spread fire and overcome sprinkler systems.

	Sect	ion 6 • Accidental Release Measures		
Containment Procedures	: Small Spill and Leak:	Absorb with an inert material and dispose of properly.		
	Large Spill and Leak:	Secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal.		
Clean-Up Procedures:	lean-Up Procedures: Contain and recover spilled material when possible.			
Evacuation Procedures:	Ventilate area of leak or sp	ill. Keep unnecessary and unprotected people away.		
Special Procedures:	Remove all sources of igni	tion. Ventilate area. Wear personal protective equipment during cleanup.		
		Section 7 • Handling and Storage		
•		sources. DO NOT allow material to come in contact with eyes or skin. Wear appropriate protective tainer closed. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash		

equipment during handling. Keep container closed. Avoid breathing vapors or mists. Use only with adequate ventilation. Wash thoroughly after handling.

Storage: Keep container in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store between 40°F and 120°F (4.4°C and 49°C).

#### Precautions to be taken in handling and storage:

Store aerosols as Level 3 Aerosol (NFPA 30B). Store all materials in a dry, well-ventilated area. Avoid breathing vapors.



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### Section 8 • Exposure Controls / Personal Protection

#### **Exposure Guidelines:**

Component	CASRN	OSHA	ACGIH	NIOSH	Supplier
Distillates (Detroloum), Understand Light	64742-47-8	5 mg/m3 (oil mist)	5 mg/m3 (oil mist) TLV	5 mg/m3 (oil mist) TWA	100 ppm TWA
Distillates (Petroleum), Hydrotreated Light	04742-47-0	PEL	10 mg/m3 (oil mist) STEL	10 mg/m3 (oil mist) STEL	525 mg/m3 TWA
Distillator (Detrolours), Undretropted Middle	64742-46-7	5 mg/m3 (oil mist)	5 mg/m3 (oil mist) TLV	5 mg/m3 (oil mist) TWA	News reported
Distillates (Petroleum), Hydrotreated Middle	04742-40-7	PEL	10 mg/m3 (oil mist) STEL	10 mg/m3 (oil mist) STEL	None reported
Carbon Dioxide (aerosol only)	124-38-9	5000 ppm PEL	5000 ppm TLV	5000 ppm TWA	None reported
	124-30-9	SOOO PPIILEE	30000 ppm STEL	30000 ppm STEL	None reported

**Engineering Controls:** Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

#### Personal protective equipment

Eye protection:	Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.
Hand protection:	Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, wear chemical resistant gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.
Respiratory protection:	Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e. organic vapor cartridge).
General Hygiene Considerations:	Wash thoroughly after handling. Have eye-wash facilities immediately available.



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Appearance:	Liquid		Color:	Clear	
Appearance.	Liquiu			Clear	
Odor:	Vanilla		Evaporation Rate:	< 0.7 (BuAc = 1)	)
Solubility Description:	< 0.1% ir	n water	Flash Point:	79°C (175°F) - d	lispensed liquic
Boiling Point:	195°C (3	83°F)	Flash Point Method:	Tag-Closed Cup	1
Specific Gravity (H2O=1):	0.79 - 0.8	31 @ 20°C	Decomposition Temperature:	Not established	
Vapor Density (air = 1):	4.7		Auto ignition temperature:	Not established	
Vapor Pressure:	< 0.1 mn	n Hg @ 20°C	Flammable limits (estimated):	LOWER: UPPER:	0.6% 7.0%
Rule 1171 PPc:	Not estal	blished	Partition Coefficient (octanol/water):	< 1	
V.O.C. Content:	Aerosol:	0% per State & Federal Consumer Product Regulations	Odor Threshold:	Not established	
	Bulk:	0% per State & Federal Consumer Product Regulations			
Melting Point:	Not estal	0	Viscosity:	Not established	
pH:	Not appli	cable	Volatiles:	96 - 99%	
Heat of combustion:	Aerosol: Bulk:	> 30 kJ/g > 30 kJ/g			

# Section 10 • Stability and Reactivity

Chemical Stability:	Product is stable under recommended storage conditions.
Conditions to Avoid:	Keep away from heat and ignition sources.
Incompatibility:	Reactive or incompatible with oxidizing agents.
Hazardous Decomposition:	Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide.
Hazardous Polymerization:	Will not occur.



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#### Section 11 • Toxicological Information

#### Acute and Chronic Toxicity

#### **A: General Product Information**

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

#### **B: Component Analysis**

Component	CASRN	LC-50	LD-50
Distillates (Petroleum), Hydrotreated Light	64742-47-8	> 6.8 mg/L*	> 5 g/kg*
Distillates (Petroleum), Hydrotreated Middle	64742-46-7	Not established	Not established
Carbon Dioxide (aerosol only)	124-38-9	470000 ppm / rat / 30 minutes	Not appropriate

\* Supplier Data

# Section 12 • Ecological Information Mobility: Semi-volatile. Readily absorbed into soil. Persistence / Degradability: Only slightly biodegradable Bioaccumulative potential: No bioaccumulation potential Other adverse effects: None known

Ecological studies have not been conducted for this product. The following information is available for component(s) of this product.

#### Ecotoxicity

Effects on Organisms	Component	CASRN	Test	Species	Results
Acute Toxicity on Fishes	Distillates (Petroleum), Hydrotreated Light	64742-47-8	96-hr LC50	Oncorhynchus Mykiss	3,200 μg/L*
Acute Toxicity on Daphnia					
Bacterial Inhibition	No data available				
Growth inhibition of algae					
Bioaccumulation in fish					

\* Supplier Data

For the 64742-47-8 component, no toxicity has been observed in water due to extremely low water solubility. However, hydrocarbon and petroleum distillates are potentially toxic to freshwater and saltwater ecosystems. If material is spilled on soil, some potential toxic effects could occur before biodegradation could remove material.

If spilled, the 64742-46-7 constituent may kill grasses and small plants by interfering with transpiration. Spilled material may coat gill structures of fish resulting in suffocation if spilled in shallow, running water. This product may be toxic to amphibians by preventing dermal respiration. This product may also cause gastrointestinal distress to birds and mammals through ingestion. Biodegradation of this product is possible within 90 to 120 days in aerobic environments at temperatures above 21°C.



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#### Section 13 • Disposal Considerations

Waste Status:	In its purchased form, non-aerosol material does not meet the definition of a RCRA hazardous waste. Aerosol products, if depressurized and emptied to less than 1 inch (2.54 cm) of fluid contents are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). However, if disposed of in its received form, an aerosol carries the waste code D003. (U.S.).
Disposal:	Waste must be disposed of in accordance with any and all applicable environmental control rules and/or regulations.
Note:	Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

#### Section 14 • Transport Information

#### Aerosol

D.O.T. Ground	Shipping Name:	Consumer Commodity	UN No.:	NA	
	Hazard Class:	ORM-D	Technical Name:	NA	
	Subclass:	NA	Hazard Label:	ORM-D Already on box	
	Packing Group:	NA			
Road/Rail - ADR/RID	UN No.:	1950	ADR Class:	2	
	Packing Group:	NA	Classification Code:	5F	
	Name and description:	AEROSOLS, flammable	Hazard ID No.:	NA	
	Labeling:	2.1	Technical Name:	NA	
	UN No.:	1950	Class:	2	
	Shipping Name:	Aerosols	Subsidiary Risk:	2.1	
IMDG-IMO	Labeling:	NA	Packing Group:	NA	
	Packing Instructions:	P003, LP02	EmS:	F-D, S-U	
	Marine pollutant:	No	Technical Name:	NA	
	UN No.:	1950	Class:	2.1	
	Shipping Name:	Aerosols, flammable	Subclass:	NA	
IATA - ICAO:	Packing Instructions:	203, Y203 (Ltd. Qty.)	Packing Group:	NA	
	Labeling:	Flammable Gas	Technical Name:	NA	

Non-aerosol versions of this product are not regulated by any mode of transportation.

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.



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#### Section 15 • Regulatory Information

**U.S. Federal Regulations** 

RCRA Hazardous Waste No.: D003 (aerosol only)

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

Toxic Substances Control Act (TSCA):

All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III SARA Section 311/312 (40 CFR 370) Hazard Categories: Sudden Release of Pressure (aerosols only), Fire Hazard, Immediate (Acute) Health Hazard, Delayed (Chronic) Health Hazard

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372): No individual section 313 component is present at or above 1%.

Section 112 Hazardous Air Pollutants (HAPs): None

State Regulations

California:

None

This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or other

California and OTC States: This product conforms to consumer product regulations.

#### New Jersey Right to Know:

Aerosol: Distillates (Petroleum), Hydrotreated Light 64742-47-8 • Distillates (Petroleum), Hydrotreated Middle 64742-46-7 • Carbon Dioxide 124-38-9 • Sorbitan Trioleate 26266-58-0 • Proprietary Mixture NJ TS RN 800967-5473P

Bulk: Distillates (Petroleum), Hydrotreated Light 64742-47-8 • Distillates (Petroleum), Hydrotreated Middle 64742-46-7 • Sorbitan Trioleate 26266-58-0 • Proprietary Mixture NJ TS RN 800967-5473P • C18 Unsaturated Dimer Fatty Acids 61788-89-4

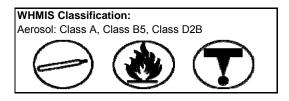
#### International Regulations

#### Canadian Environmental Protection Act (CEPA):

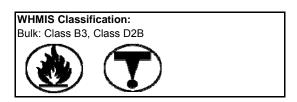
All of the components of this product are included on the Canadian Domestic Substances list (DSL).

#### Canadian Workplace Hazardous Materials Information System WHMIS:

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.



Other Regulations: Montreal Protocol listed ingredients: Stockholm Convention listed ingredients: Rotterdam Convention listed engredients: RoHS Compliant:



None None None Yes



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Section 16 • Other Information											
MSDS#:	11916	HMIS 1996		HMIS III			<b>NFPA</b> Flammability				
MSDS Preparation Responsible Name:		Health:	1	Health:	[/] 1	]					
Elena Badiuzzi Compliance Manager	3-8800	Flammability:	2	Flammability Aerosol: Flammability Bulk:	4 2	Health	Special	Reactivity			
Telephone: +1 770 243-8800		Reactivity:	0	Physical Hazard Aerosol: Physical Hazard Bulk:	2 0						

#### Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Elena Badiuzzi, Compliance Manager LPS Laboratories, a division of Illinois Tool Works