

SAFETY DATA SHEET

1. Identification	
Product identifier	LPS® Heavy-Duty Silicone (Aerosol)
Other means of identification	
Part Number	01516, 51516
Recommended use	An industrial lubricant designed to reduce mechanical wear and to extend equipment life of machinery where rubber and plastics are involved and where silicone can be tolerated.
Recommended restrictions	None known.
Manufacturer/Importer/Supplie	/Distributor information
Manufacturer	
Manufacturer	
Company name	LPS Laboratories, a division of Illinois Tool Works, Inc.
Address	4647 Hugh Howell Rd.
Country	Tucker, GA 30084 (U.S.A.)
Country	Tel: +1 770-243-8800
In Case of Emergency	1-800-424-9300 (inside U.S.)
	+001 703-527-3887 (outside U.S.)
Website	www.lpslabs.com
E-mail	sds@lpslabs.com
2. Hazard(s) identification	
Physical hazards	Flammable aerosols Category 2
Health hazards	Not classified.
Environmental hazards	Not classified.
OSHA defined hazards	Not classified.

Label elements



Signal word	Warning
Hazard statement	Flammable aerosol.
Precautionary statement	
Prevention	Keep away from flames and hot surfaces-No smoking. Do not spray on an open flame or other ignition source. Pressurized container: Do not pierce or burn, even after use.
Response	Not applicable.
Storage	Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations
Hazard(s) not otherwise classified (HNOC)	The Safety Information Sheet Chemicals of hazardous chemical can be obtained through phone email or on the company website.
Supplemental information	None.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
Naphtha, Petroleum, Hydrotreated Heavy		64742-48-9	10 - < 20
Petroleum Gases, Liquiified, Sweetened		68476-86-8	10 - < 20
Other components below reportable level	vels		60 - < 70
CLP: Regulation No. 1272/2008. DSD: Directive 67/548/EEC. PBT: persistent, bioaccumulative and toxi vPvB: very persistent and very bioaccumu #: This substance has been assigned Cor	llative substance.		

4. First-aid measures	
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim inhaled the substance. Call a physician if symptoms develop or persist.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.
Eye contact	Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if irritation develops and persists.
Ingestion	In the unlikely event of swallowing contact a physician or poison control center. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Irritant effects. Defatting of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Coughing. Shortness of breath. Discomfort in the chest.
Indication of immediate medical attention and special treatment needed	In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. If you feel unwell, seek medical advice (show the label where possible).
5. Fire-fighting measures	
Suitable extinguishing media	Water spray. Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.
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.
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. Structural firefighters protective clothing will only provide limited protection.
Fire-fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use standard firefighting procedures and consider the hazards of other involved materials. If tank, rail car or tank truck is involved in a fire, ISOLATE for 800 meters (1/2 mile) in all directions; also consider initial evacuation for 800 meters (1/2 mile) in all directions. ALWAYS stay away from tanks engulfed in flame. Withdraw immediately in case of rising sound from venting safety device or any discoloration of tanks due to fire. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. Some of these materials, if spilled, may evaporate leaving a flammable residue.
Specific methods	In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. Use water spray to cool unopened containers.
General fire hazards	Flammable aerosol.
6. Accidental release meas	sures

Personal precautions, protective equipment and emergency procedures	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Consider initial downwind evacuation for at least 500 meters (1/3 mile). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep out of low areas. Ventilate closed spaces before entering them.
Methods and materials for containment and cleaning up	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Extinguish all flames in the vicinity. Keep combustibles (wood, paper, oil, etc.) away from spilled material.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb spillage with non-combustible, absorbent material. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
	Never return spills in original containers for re-use.

Prevent further leakage or spillage if safe to do so. Do not contaminate water. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling	DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. All equipment used when handling the product must be grounded. Do not breathe gas/fumes/vapor/spray. Use only in well-ventilated areas. Avoid prolonged or repeated contact with skin. Wear protective gloves/eye protection/face protection. Wash thoroughly after handling. Use care in handling/storage.
Conditions for safe storage, including any incompatibilities	Level 1 Aerosol.
	Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Keep out of the reach of children.

8. Exposure controls/personal protection

Occupational exposure limits	No exposure limits noted for ingredient(s).	
Biological limit values	No biological exposure limits noted for the ingredient(s).	
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	Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.	
Skin protection		
Hand protection	Use personal protective equipment as required. Chemical resistant gloves are recommended.	
Other	Do not get this material in contact with skin. Use personal protective equipment as required. Chemical resistant gloves.	
Respiratory protection	Do not breathe dust/fume/gas/mist/vapors/spray. No personal respiratory protective equipment normally required. In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Not available.	
General hygiene considerations	Do not get in eyes, on skin, on clothing. When using, do not eat, drink or smoke. Wash hands after handling. Handle in accordance with good industrial hygiene and safety practice.	

9. Physical and chemical properties

	- Lieudal
Appearance	Liquid.
Physical state	Gas.
Form	Aerosol.
Color	White
Odor	Mild.
Odor threshold	Not established
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling	212 °F (100 °C)
range	
Flash point	143.6 °F (62.0 °C) Tag Closed Cup
Evaporation rate	< 1 BuAc
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	1.3 %
Flammability limit - upper (%)	9.5
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	17.5 mm Hg @ 20°C
Vapor density	6
Relative density	Not available.
Solubility(ies)	
Solubility (water)	Emulsifies

Partition coefficient (n-octanol/water)	< 1
Auto-ignition temperature	> 572 °F (> 300 °C)
Decomposition temperature	Not available.
Viscosity	5000 - 12000 cP @ 25°C
Other information	
Heat of combustion	< 20 kJ/g
Percent volatile	Not established
Specific gravity	0.92 - 0.94
VOC (Weight %)	31.9 % per U.S. State and Federal Consumer Product Regulations.

10. Stability and reactivity

Reactivity	Not available.
Chemical stability	Risk of ignition.
Possibility of hazardous reactions	Hazardous polymerization does not occur.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. This product may react with oxidizing agents.
Incompatible materials	Incompatible with oxidizing agents.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

11. Toxicological information

Information on likely routes of exposure

Ingestion	May be harmful if swallowed.
Inhalation	Vapors have a narcotic effect and may cause headache, fatigue, dizziness and nausea.
Skin contact	Causes skin irritation.
Eye contact	May be irritating to eyes.
Symptoms related to the physical, chemical and	Not available.

toxicological characteristics

Acute toxicity

Information on toxicological effects

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

Components	Species	Test Results	
Naphtha, Petroleum, Hydro	otreated Heavy (CAS 64742-48-9)		
Acute			
Dermal			
LD50	Rabbit	> 1900 mg/kg	
Inhalation			
LC50	Rat	> 4980 mg/m3	
		> 4.96 mg/l	
Oral			
LD50	Rat	4820 mg/kg	

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation	Based on available data, the classification criteria are not met.
Serious eye damage/eye irritation	Based on available data, the classification criteria are not met.
Respiratory or skin sensitization	
Respiratory sensitization	Based on available data, the classification criteria are not met.
Skin sensitization	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.
Specific target organ toxicity - single exposure	Based on available data, the classification criteria are not met.

Specific target organ toxicity - repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Chronic effects	Prolonged inhalation may be harmful.
Further information	Symptoms may be delayed.

12. Ecological information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	Expected to biodegrade.
Bioaccumulative potential	Not available.
Partition coefficient n-octand	ol / water (log Kow)
LPS® Heavy-Duty Silicone (Ae	erosol) < 1
Mobility in soil	Not available

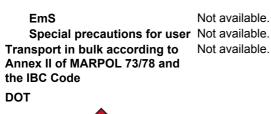
Mobility in soil	Not available.
Other adverse effects	Not available.

13. Disposal considerations

Disposal instructions	Contents under pressure. Do not puncture, incinerate or crush. Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Hazardous waste code	D003: Waste Reactive material D001: Waste Flammable material with a flash point <140 F
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	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.

14. Transport information

DOT	
UN number	UN1950
UN proper shipping name	Aerosols, flammable
Transport hazard class(es)	
Class	2.1
Subsidiary risk	2.1
Label(s)	2.1
Packing group	Not applicable.
Special precautions for user	
Special provisions	N82
Packaging exceptions	306
IATA	
UN number	UN1950
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	Not available.
Other information	
Passenger and cargo	Forbidden.
aircraft	
Cargo aircraft only	Forbidden.
IMDG	
UN number	UN1950
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	
Marine pollutant	No.





15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

	Not regulated. CERCLA Hazardous Substan Not listed.	lated Substances (29 CFR 19	. ,		
c	U U	authorization Act of 1000 (CA			
Su	perfund Amendments and Rea Hazard categories	authorization Act of 1986 (SA Immediate Hazard - No Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No	KA)		
	SARA 302 Extremely hazardous substance	Yes			
	SARA 311/312 Hazardous chemical	Yes			
	SARA 313 (TRI reporting) Chemical name		CAS number	% by wt.	
	1,3-Dichloropropene Dichloromethane		542-75-6 75-09-2	< 0.1 < 0.1	
Oth	er federal regulations				
	Clean Air Act (CAA) Section	112 Hazardous Air Pollutant	s (HAPs) List		
	Not regulated.	112(r) Accidental Release Pr	evention (40 CFR 6	8.130)	
	Safe Drinking Water Act (SDWA)	Not regulated.			

US state regulations

US. Massachusetts RTK - Substance List

Not regulated.

- US. New Jersey Worker and Community Right-to-Know Act
- Not regulated.
- US. Pennsylvania RTK Hazardous Substances Not regulated.
- **US. Rhode Island RTK**

Not regulated.

US. California Proposition 65 Not Listed.

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)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
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)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

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

*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, including date of preparation or last revision

Issue date	09-11-2013
Version #	01
Further information	HMIS® is a registered trade and service mark of the NPCA.
NFPA ratings	Health: 1 Flammability: 2 Instability: 0

References	ACGIH EPA: AQUIRE database NLM: Hazardous Substances Data Base US. IARC Monographs on Occupational Exposures to Chemical Agents Korea. Accidental Release Prevention Substances (Presidential Decree of Toxic Chemical Control Law, Executive Order No. 19203) Korea. Dangerous Substances Threshold Quantity (Presidential Decree of Dangerous Substances Safety Management Act No. 18406, Schedule 1) Korea. Harmful Substances Prohibited from Manufacturing (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 29) Korea. Harmful Substances Requiring Permission for Manufacture or Use (Presidential Decree on the Industrial Safety and Health Act (No. 13053), Article 30) Korea. Non-Toxic Chemicals List (National Institute of Environment Research (NIER) Public Notice No. 1997-10, as amended) Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6) Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6) Korea. Observational Chemicals (Ministerial Decree of TCCL Article 6) Korea. Observational Chemicals Substances (TCCL Article 11) Korea. Regulated volatile organic compounds (VOCs) (MOE Notice No. 2001-36, March 8, 2001, as amended) Korea. Restricted Chemical Substances (TCCL Article 11) Korea. Toxic Chemical Control Law (TCCL), pre-1997 List Korea. Toxic Chemical Control Law (TCCL), pre-1997 List Korea. Toxic Chemicals (TCCL Article 10) Korea. Toxic Chemicals (TCCL Article 10) Taiwan. Dangerous Materials (Rules on Hazard Communication of Dangerous Materials and Toxic Materials) HSDB® - Hazardous Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Precursor Chemicals, MOEA Decree No. 87, as amended) Taiwan. Toxic Chemical Substances (TCS) (List of Toxic Chemical Substances announced by the Environmental Protection Administration) Taiwan. Toxic Chemical Substances Data Bank JIS Z 7205: 2005 Safety data sheet for chemical products-Part 1: Content and order of sections JCIA GHS Guidelline, October 2008 IARC Monographs. Overall Evaluation of Carcinoge
Disclaimer	This safety data sheet was prepared in accordance with the Safety Data Sheet for Chemical Products (JIS Z 7250:2005). Additional information is given in the Material Safety Data Sheet. The information in the sheet was written based on the best knowledge and experience currently available.