



MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Material name LPS® Heavy-Duty Silicone (Aerosol)
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.
Version # 01
CAS # Mixture
Part Number 01516
Supplier Name MRO Chem Pty Ltd
Address Level 19, 644 Chapel Street,
South Yarra, Vic 3141, Australia.
Tel: +61 (3)9823 6273
Website: <http://www.mrochem.com.au>
In Case of Emergency (Australia) +61 (4)3448 1129 (US) +1 703-527-3887
Manufacturer
Company name LPS Laboratories, a division of Illinois Tool Works, Inc.
Address 4647 Hugh Howell Rd., Tucker, GA 30084 (U.S.A.)
Website <http://www.lpslabs.com>
E-mail sds@lpslabs.com

2. HAZARDS IDENTIFICATION

Classification R10
Risk phrase(s) R10 Flammable.
Safety phrase(s) S9 Keep container in a well-ventilated place.
S16 Keep away from sources of ignition - No smoking.
S23 Do not breathe gas/fumes/vapor/spray.
S24 Avoid contact with skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS #	Percent
Naphtha, Petroleum, Hydrotreated Heavy	64742-48-9	10 - < 30
Petroleum Gases, Liquefied, Sweetened	68476-86-8	10 - < 30
Other components below reportable levels		> 60

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.

General advice 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).

Notes to physician In case of shortness of breath, give oxygen. Keep victim under observation. Symptoms may be delayed.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media Water fog. Carbon dioxide (CO2). Alcohol resistant foam. Powder.

Extinguishing media which must not be used for safety reasons Do not use water jet as an extinguisher, as this will spread the fire.

Unusual fire & explosion hazards Heat may cause the containers to explode.

Specific hazards	Contents under pressure. Pressurized container may explode when exposed to heat or flame.
Special protective equipment 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. Structural firefighters protective clothing will only provide limited protection.
HAZCHEM code	None
Hazardous combustion products	May include oxides of carbon and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep out of low areas.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground.
Containment procedures	Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use water spray to reduce vapors or divert vapor cloud drift.
Methods for cleaning up	Extinguish all flames in the vicinity. Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. 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. This material and its container must be disposed of as hazardous waste.

7. HANDLING AND STORAGE

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.
Storage	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

Recommended monitoring procedures

Additional exposure data	Not available.
Engineering measures to reduce exposure	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.
Personal protective equipment	
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.
Hand protection	Use personal protective equipment as required. Chemical resistant gloves are recommended.
Eye protection	Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.
Skin and body protection	Do not get this material in contact with skin. Use personal protective equipment as required. Chemical resistant gloves.
General	Use personal protective equipment as required.
Environmental exposure controls	Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.
Hygiene measures	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

Appearance	Liquid.
Physical state	Gas.
Form	Aerosol.
Color	White
Odor	Mild.

Odor threshold	Not established
pH	Not available.
Vapor pressure	17.5 mm Hg @ 20°C
Vapor density	6
Boiling point	212 °F (100 °C)
Solubility (water)	Emulsifies
Specific gravity	0.92 - 0.94
Flash point	143.60 °F (62.00 °C) Tag Closed Cup
Flammability limits in air, upper, % by volume	9.5
Flammability limits in air, lower, % by volume	1.3 %
Auto-ignition temperature	> 572 °F (> 300 °C)
VOC	31.9 % per U.S. State and Federal Consumer Product Regulations.
Evaporation rate	< 1 BuAc
Viscosity	5000 - 12000 cP @ 25°C
Percent volatile	Not established
Partition coefficient (n-octanol/water)	< 1
Other data	
Heat of combustion	< 20 kJ/g

10. STABILITY AND REACTIVITY

Chemical stability	Risk of ignition.
Conditions to avoid	Avoid heat, sparks, open flames and other ignition sources. This product may react with oxidizing agents.
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	At thermal decomposition temperatures, carbon monoxide and carbon dioxide.
Hazardous polymerization	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	Based on available data, the classification criteria are not met.
Routes of exposure	Eye contact. Skin contact. Inhalation. Ingestion.
Chronic toxicity	Prolonged inhalation may be harmful.
Sensitization	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductivity	Based on available data, the classification criteria are not met.
Epidemiology	No epidemiological data is available for this product.
Local effects	May irritate eyes and skin. Irritating to respiratory system.
Further information	Symptoms may be delayed.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	Expected to biodegrade.
Bioaccumulation	
Bioaccumulative potential	
Octanol/water partition coefficient log Kow	
LPS® Heavy-Duty Silicone (Aerosol)	< 1
Environmental effects	Ecological injuries are not known or expected under normal use.

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.
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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**ADG**

UN number UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
Packaging exceptions 306

IATA

UN number UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
Labels required 2.1
Packaging exceptions 306

IMDG

UN number UN1950
Proper shipping name Aerosols, flammable
Hazard class 2.1
Labels required 2.1
Packaging exceptions 306

ADG**IATA; IMDG****HAZCHEM code**

None

15. REGULATORY INFORMATION**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.) No poison schedule number allocated.

Australia HVIC: Listed substance

Naphtha, Petroleum, Hydrotreated Heavy (CAS 64742-48-9) Listed.

Inventory status

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

Country(s) or region	Inventory name	On inventory (yes/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

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.
Issue date	03-06-2013