

# **HEAVY-DUTY SILICONE**

## LUBRICANT

Heavy-Duty Silicone Lubricant is a unique water-based formulation that contains a high percentage (5%) of silicone for better and longer lubrication.















## **FEATURES**

- Water-based, silicone rich formula that lubricates and protects rubber, plastic and metal parts
- Does not contain chlorinated solvents
- Provides excellent lubricity
- Ideal for surfaces like elastomers and plastics where petroleum based lubricants are unsuitable
- Eliminates sticking, binding, squeaking
- Forms a clear, dry film upon extended drying
- Colorless, odorless and non-toxic
- Safe on most surfaces



#### SPECIFICATIONS AND APPROVALS

- Meets FDA Regulation 21 C.F.R. 178.3570 for incidental food contact
- NSF® Certified: H1 Registration # 059820 (Aerosol), # 059821 (bulk)
- Acceptable for use in Canadian food processing establishments
- Central Power & Light
- City Public Services
- Ford Motor Company
- General Motors Co.
- Kimberly-Clark
- Kodak
- New York City Transit
- **CARB** Compliant
- OTC Compliant

## **PACKAGE SIZES**

**Net Contents** 

13 wt. oz. / 369 g / 439 mL aerosol 5 gal. (18.93) pail

Part No.

01516 01505

## **APPLICATIONS**

Castors Guards

Guide Rails

Moving Plastic Parts

Plastic Gears

#### Rings

**Rubber Bushings** 

**Rubber Mountings** 

Seals

Window Channels



#### **PROPERTIES**

Appearance/Physical State	Liquid	Color	Colorless/water white	
Odor	Mild	Flash Point °F (°C)	144 °F (62 °C) TCC	
Specific Gravity (water=1)	0.92 - 0.94 @ 68°F (20°C)		31.9% (aerosol); 20.0% (bulk) per State & Federal Consumer Product Regulations	
Auto Ignition Temperature	>572°F (300°C)	VOC Content		
Evaporation Rate	<1 BuAc		296 g/L (aerosol); 185 g/L (bulk) per SCAQMD Rule 102	
HMIS	1, 2, 0	Vapor Pressure	17.5 mmHg @ 68°F (20°C)	
Propellant	Propane/Isobutane blend	Temperature Range °F(°C)	-40°F (-40°C )to 392°F (200°C)	

#### **DIRECTIONS**

AEROSOL: Shake well before using. Apply on clean surface. Hold can 10-12 inches away from surface and spray evenly. Wipe off excess. Reapply as needed.

BULK: KEEP FROM FREEZING. Mix well before using. Apply evenly to clean surface. Wipe off excess. Reapply as needed.

#### **STORAGE**

Keep container in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F. Store aerosols as Level 1 Aerosol (NFPA 30B). Store all materials in dry, well-ventilated area. Avoid breathing vapors.

#### **DISPOSAL INFORMATION**

Waste must be disposed of in accordance with national, regional, provincial, and local environmental control regulations.

MATERIAL SAFETY DATA SHEETS AVAILABLE UPON REQUEST OR VISIT OUR WEB SITE: WWW.LPSLABS.COM



## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

LPS® Heavy-Duty Silicone (Aerosol)

of the mixture

Registration number

**Synonyms** None. **Part Number** M01516

legue date 06-March-2013

Version number Λ1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses 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.

Uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier Geocel Limited

Company name

Western Wood Way, Langage Science Park, Plympton,

**Address** 

Plymouth, PL7 5BG United Kingdom

+44 (0)1752 202060 / +44 (0)1752 334384 **Telephone** 

In Case of Emergency +001 703-527-3887

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 sds@lpslabs.com e-mail

#### **SECTION 2: Hazards identification**

#### 2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

Classification R10

The full text for all R-phrases is displayed in section 16.

Classification according to Regulation (EC) No 1272/2008 as amended

Physical hazards

Flammable aerosols Category 2 H223 - Flammable aerosol.

**Hazard summary** 

**Physical hazards** Flammable.

**Health hazards** Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

**Environmental hazards** Not classified for hazards to the environment.

Specific hazards Flammable

Main symptoms Irritating to eyes, respiratory system and skin. Symptoms may include redness, oedema, drying,

defatting and cracking of the skin. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Symptoms of overexposure may be headache, dizziness, tiredness, nausea and

vomiting. Prolonged exposure may cause chronic effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

**Hazard pictograms** 

SDS FU M01516 Version No.: 01 Issue date: 06-March-2013

Signal word Warning

**Hazard statements** 

H223 Flammable aerosol.

**Precautionary statements** 

Prevention

P210 Keep away from flames and hot surfaces-No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Pressurised container: Do not pierce or burn, even after use.

Response Not applicable.

Storage

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Supplemental label information** Not applicable. **2.3. Other hazards** Not assigned.

#### **SECTION 3: Composition/information on ingredients**

3.2. Mixtures

The components are not hazardous or are below required disclosure limits.

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

#### **SECTION 4: First aid measures**

**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).

4.1. Description of 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.

**In the unlikely event of swallowing contact a physician or poison control centre. Do not induce** 

vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both 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.

4.3. Indication of any immediate medical attention and special treatment needed

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

delayed.

#### **SECTION 5: Firefighting measures**

General fire hazards Flammable aerosol.

5.1. Extinguishing media

Suitable extinguishing

media

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.

5.2. Special hazards arising from the substance or mixture

Contents under pressure. Pressurised container may explode when exposed to heat or flame.

5.3. Advice for firefighters

Special protective equipment 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.

Special fire fighting

procedures

Not available.

Material name: LPS® Heavy-Duty Silicone (Aerosol) - LPS Laboratories (EU)

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#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

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. Keep people away from and upwind of spill/leak.

For emergency responders

Keep unnecessary personnel away.

6.2. Environmental precautions

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.

6.3. Methods and material for containment and 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.

6.4. Reference to other sections

Not available.

#### **SECTION 7: Handling and storage**

7.1. 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/vapour/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.

7.2. Conditions for safe storage, including any incompatibilities

Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C.

Keep out of the reach of children.

7.3. Specific end use(s) Not available.

## **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

**Biological limit values** 

#### Occupational exposure limits

Components	Туре	Value	
Naphtha, Petroleum, Hydrotreated Heavy (CAS	TWA	500 mg/m3	
64742-48-9)			

#### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Туре	Value	
Naphtha, Petroleum, Hydrotreated Heavy (CAS 64742-48-9)	TWA	300 mg/m3	
,		50 ppm	

#### Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Туре	Value	
Naphtha, Petroleum, Hydrotreated Heavy (CAS 64742-48-9)	STEL	900 mg/m3	
•	TWA	300 mg/m3	
Switzerland. SUVA Grenzwerte ar	n Arbeitsplatz		
Components	Туре	Value	
Naphtha, Petroleum, Hydrotreated Heavy (CAS 64742-48-9)	STEL	600 mg/m3	
		100 ppm	
	TWA	300 mg/m3	
		50 ppm	

Material name: LPS® Heavy-Duty Silicone (Aerosol) - LPS Laboratories (EU)

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No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available. Not available.

Predicted no effect

concentrations (PNECs)

8.2. Exposure controls

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. 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

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 practices.

**Environmental exposure** 

controls

Contain spills and prevent releases and observe national regulations on emissions.

Environmental manager must be informed of all major releases.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Liquid. **Appearance** Physical state Gas **Form** Aerosol Colour White Odour Mild

**Odour threshold** Not established Not applicable. Initial boiling point and boiling

range

100 °C (212 °F)

62,00 °C (143,60 °F) Tag closed cup Flash point

< 1 BuAc **Evaporation rate** Flammability (solid, gas) Not applicable. Upper/lower flammability or explosive limits

Flammability limit - lower

1,3 %

Flammability limit - upper

9,5

(%)

Vapour pressure 17,5 mm Hg @ 20°C

Vapour density

Relative density Not available. Solubility(ies) **Emulsifies** 

Partition coefficient < 1

(n-octanol/water)

**Auto-ignition temperature** > 300 °C (> 572 °F)

**Decomposition temperature** Not available.

5000 - 12000 cP @ 25°C Viscosity

**Explosive properties** Not available. **Oxidizing properties** Not available.

9.2. Other information

Heat of combustion < 20 kJ/gPercent volatile Not established

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SDS FU

Specific gravity 0,92 - 0,94

VOC (Weight %) 31,9 % per U.S. State and Federal Consumer Product Regulations.

#### **SECTION 10: Stability and reactivity**

10.1. Reactivity Strong oxidizing agents.

10.2. Chemical stability Risk of ignition.

10.3. Possibility of hazardous

reactions

Hazardous polymerisation does not occur.

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. This product may react with oxidizing

agents.

10.5. Incompatible materials Incompatible with oxidizing agents.

10.6. Hazardous

decomposition products

At thermal decomposition temperatures, carbon monoxide and carbon dioxide.

#### **SECTION 11: Toxicological information**

Not available. **General information** 

Information on likely routes of exposure

Ingestion May be harmful if swallowed.

Inhalation Vapours have a narcotic effect and may cause headache, fatigue, dizziness and nausea.

Skin contact Causes skin irritation. Eye contact May be irritating to eyes.

Not available. Symptoms

11.1. Information on toxicological effects

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

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

Germ cell mutagenicity Note P - "The classification as a carcinogen or mutagen need not apply if it can be shown that the

substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)." No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Note P - "The classification as a carcinogen or mutagen need not apply if it can be shown that the Carcinogenicity

substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7)." 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.

Mixture versus substance

information

Not available.

Other information Symptoms may be delayed.

#### **SECTION 12: Ecological information**

12.1. Toxicity Not expected to be harmful to aquatic organisms.

12.2. Persistence and

degradability

Expected to biodegrade.

12.3. Bioaccumulative potential Not available.

Partition coefficient n-octanol/water (log Kow)

> LPS® Heavy-Duty Silicone (Aerosol) < 1

**Bioconcentration factor (BCF)** Not available. 12.4. Mobility in soil Not available

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

Not available. 12.6. Other adverse effects

#### **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Residual waste 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.

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

disposal company.

Disposal methods/information Contents under pressure. Do not puncture, incinerate or crush. Collect and reclaim or dispose in

sealed containers at licensed waste disposal site.

#### **SECTION 14: Transport information**

#### **ADR**

UN1950 14.1. UN number

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard 2.1

class(es)

Subsidiary class(es)

14.4. Packing group Not available.

14.5. Environmental hazards No

Not available. **Tunnel restriction code** 

Labels required

14.6. Special precautions

Not available.

for user

RID

14.1. UN number UN1950

14.2. UN proper shipping Aerosols, flammable

name

14.3. Transport hazard 2.1

class(es)

Subsidiary class(es)

14.4. Packing group Not available.

14.5. Environmental hazards No Labels required 2.1

14.6. Special precautions

for user **ADN** 

14.2. UN proper shipping

name

Aerosols, flammable

Not available.

UN1950

14.3. Transport hazard

14.1. UN number

2.1

class(es)

Subsidiary class(es)

14.4. Packing group Not available.

14.5. Environmental hazards No Labels required

14.6. Special precautions

for user

Not available.

IATA

14.1. UN number

UN1950

14.2. UN proper shipping

Aerosols, flammable

name

14.3. Transport hazard 2.1

class(es)

Subsidiary class(es)

Not available. 14.4. Packing group 14.5. Environmental hazards Not available.

Labels required

**ERG Code** Not available. Not available. 14.6. Special precautions

for user

#### **IMDG**

**14.1. UN number** UN1950

**14.2. UN proper shipping** Aerosols, flammable

name

**14.3. Transport hazard** 2.1

class(es)

Subsidiary class(es) -

**14.4. Packing group** Not available.

14.5. Environmental hazards

Marine pollutant No Labels required 2.1

14.6. Special precautions Not available.

for user

**14.7. Transport in bulk** This substance/mixture is not intended to be transported in bulk.

according to Annex II of MARPOL 73/78 and the IBC

Code

ADN; ADR; IATA; IMDG; RID



## **SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### **EU** regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

#### **Authorisations**

Regulation (EC) No. 143/2011 Annex XIV Substances Subject to Authorisation

Not listed.

#### Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

#### Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Not regulated.

Directive 94/33/EC on the protection of young people at work

Not regulated.

Other regulations The product is classified and labelled in accordance with EC directives or respective national

laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Young people under 18 years old are not allow to work with this product according to the EU

Directive 94/33/EC on the protection of young people at work.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

#### **SECTION 16: Other information**

List of abbreviationsNot available.ReferencesNot available.Information on evaluationNot available.

method leading to the classification of mixture

R10 Flammable.

Full text of any statements or R-phrases and H-statements under Sections 2 to 15

**Revision information** None.

Training information Not available.

**Disclaimer** The information in the sheet was written based on the best knowledge and experience currently

available.

 ${\it Material name: LPS} \hbox{\it @ Heavy-Duty Silicone (Aerosol) - LPS Laboratories (EU)}$ 

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