

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

SECTION 1. IDENTIFICATION

Product Name: SUPER O-LUBE
Product Code: 000000000004088547

Manufacturer or supplier's details

Company name of supplier: Parker Hannifin

Address: 2360 Palumbo Drive
Lexington KY 40509

Telephone: (859) 269-2351

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with 29 CFR 1910.1200

Not a hazardous substance or mixture.

GHS label elements

Not a hazardous substance or mixture.

Precautionary Statements:

Prevention:

P261 Avoid breathing spray.

P271 Use only outdoors or in a well-ventilated area.

Other hazards

None Known.

SECTION 3. COMPOSITION OF INGREDIENTS

Substance / Mixture : Substance
Substance name : Dimethyl siloxane, trimethylsiloxy-terminated
CAS-No. : 63148-62-9
Chemical nature : Silicone

Hazardous ingredients

No hazardous ingredients

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

SECTION 4. FIRST AID MEASURES

If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.
In case of eye contact	:	Flush eyes with water as a precaution. Get medical attention if irritation develops and persists.
If swallowed	:	If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and delayed	:	None Known.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishable media	:	Water Spray Alcohol-resistant foam Carbon dioxide (CO ₂) Dry chemical
Unsuitable extinguishing media	:	None Known.
Specific hazards during firefighting	:	Exposure to combustion products may be a hazard to health.
Hazardous combustion products	:	Carbon oxides Silicon oxides Formaldehyde

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
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SECTION 6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Follow safe handling advice and personal protective equipment recommendations.
- Environmental precautions : Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
For large spills, provide diking or other appropriate containment to keep material from spreading. If diked materials can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under ESPOSURE CONTROLS/PERSONAL PROTECTION section.
 - Local/Total ventilation : Use only with adequate ventilation.
 - Advice on safe handling : Avoid inhalation of vapor or mist. Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
 - Conditions for safe storage : Keep in properly labeled containers. Store in accordance with the particular national regulations.
 - Materials to avoid : Do not store in the following product types:
Strong oxidizing agents
-

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

Personal protective equipment

- Respiratory protection : No personal respiratory protective equipment normally required.
- Hand protection : Wash hands before breaks and at the end of workday
- Eye protection : Wear the following personal protective equipment:
Safety Glasses
- Skin and body protection : Skin should be washed after contact.
- Hygiene measures : Ensure that the eye flushing systems and safety showers are located close to the working place. When using do not eat, drink, or smoke. Wash contaminated clothing before re-use. These precautions are for room temperature handling. Use at elevated temperature or aerosol / spray applications may require added precautions. For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Parker Hannifin Application Engineering group.
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SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : viscous liquid
- Color : colorless
- Odor : characteristic
- Odor threshold : No data available

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

pH	:	No data available
Melting point/freezing point	:	No data available
Initial boiling point and boiling range	:	> 65°C
Flash point	:	321.11°C Method: closed cup
Evaporation rate	:	No data available
Flammability	:	Not applicable
Self-ignition	:	The substance or mixture is not classified as pyrophoric. The substance or mixture is not classified as self-heating.
Upper explosion limit	:	No data available.
Lower explosion limit	:	No data available.
Vapor pressure	:	No data available.
Relative vapor density:		No data available.
Relative density	:	0.97
Solubility(ies) Water solubility	:	No data available.
Partition coefficient n-octanol/water	:	No data available.
Autoignition temperature	:	No data available.
Decomposition temperature	:	No data available.

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

Viscosity kinematic	:	100,000 cSt
Explosive Properties	:	Not Explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous	:	Can react with strong oxidizing agents. When heated to temperatures above 150°C (302°F) in the presence of air, trace of amounts of formaldehyde may be released. Adequate ventilation is required. See OSHA formaldehyde standard, 29 CFR 1910.1048 hazardous decomposition will be formed at elevated temperatures.
Conditions to avoid	:	None Known.
Incompatible materials	:	Oxidizing agents
Hazardous decomposition products		
Thermal decomposition	:	Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Skin contact

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : LD50(Rat): > 15,400 mg/kg
Assessment: The substance or mixture has no acute or oral toxicity.
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity.
Remarks: Based on data from similar materials

Skin corrosion/irritations

Not classified based on available information.

Product:

Species: Rabbit
Result: No skin irritation
Remarks: Based on data from similar materials

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species: Rabbit
Result: No eye irritation
Remarks: Based on data from similar materials

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

Respiratory sensitization

Not classified based on available information.

Product:

Assessment: Does not cause skin sensitization.

Test Type: Maximization Test

Species: Guinea pig

Remarks: No known sensitizing effect based on data from similar materials.

Germ cell mutagenicity

Not classified based on available information.

Product:

Genotoxicity in vitro : Test Type: Bacterial revers mutation assay (AMES)
Result: Negative
Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Product:

Species: Rat

Application Route: Ingestion

Result: Negative

Remarks: Based on data from similar materials

Carcinogenicity Assessment : Animal testing did not show any carcinogenic effects.

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Product:

Effects on fertility : Test Type: Reproduction/Developmental toxicity screening test
Species: Rabbit, male
Application Route: Ingestion
Symptoms: No effects on fertility
Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Reproduction/Developmental toxicity screening test
Species: Rabbit, male
Application Route: Ingestion
Symptoms: No effects on fetal development
Remarks: Based on data from similar materials

Test Type: Prenatal development toxicity study (teratogenicity)
Species: Rabbit, female
Application Route: Skin contact
Symptoms: No effects on fetal development
Remarks: Based on data from similar materials

Reproductive toxicity Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

STOT-single exposure

Not classified based on available information.

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

STOT-repeated exposure

Not classified based on available information.

Product:

Routes of exposure: Skin contact

Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Routes of exposure: Ingestion

Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Repeated dose toxicity

Product:

Species: Rabbit

Application Route: Skin contact

Remarks: Based on data from similar materials

Species: Rat

Application Route: Ingestion

Remarks: Based on data from similar materials

Aspiration toxicity

Not classified based on available information.

Product:

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

No data available

Persistence and degradability

No data available

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Resource Conservation and Recovery Act (RCRA) : This product has been evaluated for RCRA characteristics and does not meet the criteria of hazardous waste if discarded in its purchased form.
- Waste from residues : Dispose of in accordance with local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal. If not otherwise specified: Dispose of as unused product.
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SECTION 14. TRANSPORT INFORMATION

Internal Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-CODE

Not regulated as a dangerous good

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied

Domestic regulation

49 CFR

Not regulated as a dangerous good

SECTION 15. REGULATORY INFORMATION

EPCRA – Emergency Planning and Community Right-to-Know

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 302 EHS TPQ

SARA 311/312 Hazards : No SARA Hazards

SARA 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US State Regulations

Pennsylvania Right to Know

Dimethyl siloxane, trimethylsiloxy-terminated 63148-62-9

California Prop. 65 This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects>

The ingredients of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified

SAFETY DATA SHEET

SUPER O-LUBE



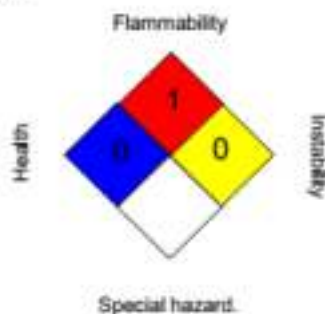
Version 1	Revision Date 1/30/2017	SDS Number 717373-0006	Date of last issue 1/30/2017
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REACH	:	All ingredients (pre-)registered or exempt
TSCA	:	All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.
AICS	:	All ingredients listed or exempt
IECSC	:	All ingredients listed or exempt
ENCS/ISHL	:	All components are listed on ENCS/ISHL or exempted from inventory listing.
DSL	:	All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL)

SECTION 16. OTHER INFORMATION

Further Information

NFPA:



HMIS® IV:

HEALTH	/	0
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "/" represents a chronic hazard, while the "1" represents the absence of a chronic hazard.

SAFETY DATA SHEET

SUPER O-LUBE



Version
1

Revision Date
1/30/2017

SDS Number
717373-0006

Date of last issue
1/30/2017

Full text or other abbreviations

AICS – Australian Inventory of Chemical Substances; ASTM – American Society for the Testing of Materials; bw – Body weight; CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act; CMR – Carcinogen, Mutagen, or Reproductive Toxicant; DIN – Standard of the German Institute for Standardization; DOT – Department of Transportation; DSL – Domestic Substances List (Canada); ECx – Concentration associated with x% response; EHS – Emergency Hazardous substance; ELx – Loading rate associate with x% response; EmS – Emergency Schedule; ENCS – Existing and New Chemical Substances (Japan); ErCx – Concentration associated with x% growth rate response; ERG – Emergency Response Guide; GHS – Globally Harmonized System; GLP – Good Laboratory Practice; HMIS – Hazardous Materials Identification System; IARC – International Agency for Research on Cancer; IATA – International Air Transport Association; IBC – International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 – half maximal inhibitory concentration; ICAO – International Civil Aviation Organization; IECSC – Inventory of Existing Chemical Substances in China; IMDG- International Maritime Dangerous Goods; IMO – International Maritime Organization; ISHL – Industrial Safety and Health Law (Japan); ISO – International Organization for Standardization; KECI – Korea Existing Chemicals Inventory; LC50 – Lethal Concentration to 50% if test population; LD50- Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL – International Convention for the Prevention of Pollution from Ships; MSHA – Mine Safety and Health Administration; n.o.s. – Not Otherwise Specified; NFPA – National Fire Protection Association; NA(A)EC – No Observed (Adverse) Effect Concentration; NO(A)EL – No Observed (Adverse) Effect Level; NOELR – No observable Effect Loading Rate; NTP – National Toxicology Program; NZIoC – New Zealand Inventory of Chemicals; OECD – Organization of Economic Co-operation and Development; OPPTS – Office of Chemical Safety and Pollution Prevention; PBT – Persistent, Bioaccumulative and Toxic Substances; PICCS – Philippines Inventory of Chemical and Chemical Substances; (Q) SAR – (Quantitative) Structure Activity Relationship; RCRA – Resource Conservation and Recovery Act; REACH – Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorization and Restriction of Chemicals; RQ – Reportable Quantity; SADT – Self Accelerating Decomposition Temperature; SARA – Superfund Amendments and Reauthorization Act; SDS – Safety Data Sheet; TCSI Taiwan Chemical Substance Inventory; TSCA – Toxic Substances Control Act (United States); UN – United Nations; UNRTDG – United Nations Recommendations on Transport of

SAFETY DATA SHEET

SUPER O-LUBE



Version	Revision Date	SDS Number	Date of last issue
1	1/30/2017	717373-0006	1/30/2017

Dangerous Goods; vPvB – Very Persistent and Very Bioaccumulative

Sources of key data used to compile the Material Safety Data Sheet : International technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Revision Date : 1/30/2017

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and released shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including and assessment of the appropriateness of the SDS material in the user's end product if applicable.

US / Z8