



Safety Data Sheet

Silicone Oil 5~100,000 cP

Section 1. Chemical Product and Company Identification		Page Number: 1	
Trade Name:	Silicone Oil	Product Serial #:	SILI-1-01
Synonym:	Silicone oil, Polydimethylsiloxane	CAS #:	63148-62-9
Chemical Name:	Polydimethylsiloxane	UN #:	N/A
Chemical Formula:	$(\text{CH}_3)_3\text{SiO}[(\text{CH}_3)_2\text{SiO}]_n\text{-Si}(\text{CH}_3)_3$	Packaging Group:	N/A
Molecular Weight:	N/A	EMERGENCY CALL <u>+86-22-23528561</u>	
Chemical Family:	N/A		
Supplier Information:	Tianjin BRG Products Co., Ltd. Address: Kangning Tower B, Xikang Ave., Heping Dist., Tianjin, 300070 Tel #: +86-22-23528561 Fax #: +86-22-23523959 Website: www.brgproduct.com		

Section 2. Hazards Identification
2.1 - Classification of substance or mixture GHS Classification in accordance with 29 CFR 1910 (OSHA HCS) Acute aquatic toxicity (Category 2), H401 Chronic aquatic toxicity (Category 2), H411
2.2 Label Elements Signal word: None Hazard statements H411 Toxic to aquatic life with long lasting effects. Precautionary statements P273 Avoid release to the environment. P391 Collect spillage. P501 Dispose of contents/ container to an approved waste disposal plant.
2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

Section 3. Composition and Information on Ingredients				
Ingredients Name	CAS Number	TWA(mg/m ³)	CEIL(mg/m ³)	% By Weight or Volume
Silicone Oil	63148-62-9			100
No ingredients are hazardous according to OSHA criteria.				
No components need to be disclosed according to the applicable regulations.				

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Section 4. First Aid Measures

Eye Contact:	If in eyes, hold eyelids apart and flush the eye continuously with large amounts of water for at least 15 minutes. Seek medical attention.
Skin Contact:	If skin or hair contact occurs, immediately remove contaminated clothing and wash skin and hair thoroughly with soap and plenty of water. Seek medical attention if symptoms persist.
Inhalation:	If inhaled, remove to fresh air.
Ingestion:	Do not induce vomiting. Never give anything by mouth to an unconscious person. Seek immediate medical attention.
Notes to Physician:	Treat symptomatically or according to person's condition and specific exposure.

Section 5. Fire and Explosion Data

Flammability of the Product:	Non-flammable
Auto-Ignition Temperature:	Not applicable
Flash Points:	Not applicable
Flammable Limits:	Not applicable
Extinguishing Media:	On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO ₂), dry chemical or water spray. Water can be used to cool fire exposed containers.
Fire Fighting Measures:	Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.
Unusual Fire Hazards:	None.
Hazardous Decomposition Products:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Carbon oxides and traces of incompletely burned carbon compounds. Silicon dioxide. Formaldehyde.

Section 6. Accidental Release Measures

Personal Precautions	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.
Environmental Precautions	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Methods for Cleaning-up	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
Reference to other sections:	For disposal see section 13.

Section 7. Handling and Storage

Precautions:	Use of safe work practices are recommended to avoid eye or skin contact and inhalation. Observe good personal hygiene, including washing hands before eating. Provide adequate ventilation.
Storage:	Store in the closed, original container in a dry, well ventilated area. Keep container tightly closed when not in use. Keep away from oxidizers.

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Section 8. Exposure Controls/Personal Protection

Engineering Controls:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal Protective Equipment for Routine Handling:	<ul style="list-style-type: none"> • Eyes: Use proper protection - safety glasses as a minimum. • Skin: Washing at mealtime and end of shift is adequate. • Suitable Gloves: Handle in accordance with good industrial hygiene and safety practices. • Inhalation: No respiratory protection should be needed. • Suitable Respirator: None should be needed.
Personal Protective Equipment for Spills:	<ul style="list-style-type: none"> • Eyes: Use proper protection - safety glasses as a minimum. • Skin: Washing at mealtime and end of shift is adequate. • Inhalation/Suitable Respirator: No respiratory protection should be needed. • Precautionary Measures: Avoid eye contact. Use reasonable care.
Comments:	When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer, and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

Section 9. Physical and Chemical Properties

Physical state and appearance:	Liquid or Viscous Liquid
Odor:	Odorless or Characteristic Odor
Specific Gravity Range @ 25°C:	0.915-0.98
Viscosity:	5 to 100000 cP
Color:	Colorless
Molecular Weight:	Not available.
pH (1% soln/water):	Not available.
Boiling Point:	>35 °C / >95 °F
Melting Point/ Freezing Point:	-55 °C (-67 °F)
Flash Point Range:	>214 to 610 °F / >101.1 to 321.1 °C (Closed Cup) [all], >482 °F / >250 °C (Cleveland Open Cup)
Critical Temperature:	Not available.
Vapor Pressure:	Not available.
Dispersion Properties:	See solubility in water.
Solubility in Water::	slightly soluble

Section 10. Stability and Reactivity Data

Stability:	The product is stable.
Reactivity	No data available
Incompatible Materials	Oxidizers.
Hazardous Decomposition Products	Oxides of carbon and silicon dioxide.
Polymerization	Will not occur

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Section 11. Toxicological Information

Routes of Entry:	Eye contact. Inhalation. Ingestion. Skin.
Acute Health Effects	Inhalation: No effects are anticipated. Ingestion: No effects are anticipated. Eye: May cause eye irritation Skin: No effects are anticipated.
Chronic Effects on Humans:	The substance is toxic to lungs.
Chronic Health Effects	None reported.
Existing Conditions Aggravated by Exposure:	None reported.
Carcinogenicity	This product does not contain any chemical listed by IARC.


Section 12. Ecological Information

Ecotoxicity:	Not available.
BOD5 and COD:	Not available.
Persistence and Degradability:	Not available.
Boiaccumulative Potential:	Not available.
Results of PBT and vPvB assessment:	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted
Mobility in Soil:	No data available
Other Adverse Effects	No information available

Section 13. Disposal Considerations

Disposal methods and containers	Dispose according to applicable local and state government regulations.
Special precautions for landfill or incineration	Please consult your state Land Waste Management Authority for more information.

Section 14. Transport Information

DOT Classification:	Not a DOT controlled material (United States).
Identification	Not applicable.
Special Provisions for Transport	Not applicable.
DOT (Pictograms)	

Section 15. Regulatory Information

Contents of this SDS comply with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Status: All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

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EPA SARA Title III Chemical Listings:

- Section 302 Extremely Hazardous Substances (40 CFR 355): None.
- Section 304 CERCLA Hazardous Substances (40 CFR 302): None.
- Section 311/312 Hazard Class (40 CFR 370):

Acute: No

Chronic: No

Fire: No

Pressure: No

Reactive: No

Section 313 Toxic Chemicals (40 CFR 372): None present or none present in regulated quantities.

Note: Chemicals are listed under the 313 Toxic Chemicals section only if they meet or exceed a reporting threshold.

Supplemental State Compliance Information:

•New Jersey

CAS Number	Wt %	Component Name
63148-62-9	> 60.0	Polydimethylsiloxane

• Pennsylvania

CAS Number	Wt %	Component Name
63148-62-9	> 60.0	Polydimethylsiloxane

• California

Warning: This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth defects or other reproductive harm.

None known.

• Massachusetts

No ingredient regulated by MA Right-to-Know Law present.

Section 16. Other Information

Prepared By	Jack Lee, 2017-7
Notice to Reader	All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Tianjin BRG Products Co., Ltd., assumes no responsibility for the completeness or accuracy of the information contained herein.

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