



Be Right™

SAFETY DATA SHEET

Issue Date 02-Sep-2016

Revision Date 15-Feb-2018

Version 6.1

Section 1: Identification: Product identifier and chemical identity

Product identifier

Product Name Silicone Oil
Product Code(s) 126936

Other means of identification

Safety data sheet number M00833

Recommended use of the chemical and restrictions on use

Recommended Use Laboratory reagent. Lubricant.

Uses advised against No information available

Details of manufacturer or importer

Manufacturer

Hach Company P.O. Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Supplier

HACH Pacific 26 Brindley Street Dandenong South, 3175 AU Tel: 1300 887 735

Emergency telephone number

13 11 26

Section 2: Hazard(s) identification

GHS Classification

Serious eye damage/eye irritation	Category 2A*** - (H319)***
Respiratory sensitization	***
Skin sensitization	***
Mutagenicity	***
Carcinogenicity	***
Reproductive toxicity	***
Specific target organ toxicity (single exposure)	***
Specific target organ toxicity (repeated exposure)	***

Label elements

Exclamation mark***



Signal word - Warning***

Hazard statements

H319 - Causes serious eye irritation***

EU Specific Hazard Statements

Not applicable

Precautionary statements

P280 - Wear protective gloves/protective clothing/eye protection/face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/attention***

Other hazards

Causes mild skin irritation***

Causes mild skin irritation

Section 3: Composition and information on ingredients, in accordance with Schedule 8

Chemical Family Silicones

Substance

Chemical name	Formula	CAS No.	EC No.	Percent Range
Poly(dimethylsiloxane)***	Proprietary***	63148-62-9	-	100%

Section 4: FIRST AID MEASURES

Emergency telephone number

Poisons Information Center, Australia: 13 11 26

Poisons Information Center, New Zealand: 0800 764 766

Description of necessary first aid measures

General advice Show this safety data sheet to the doctor in attendance.***

Inhalation Remove to fresh air.***

Skin contact Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician.

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.***

Ingestion Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.***

For emergency responders

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).***

Most important symptoms/effects, acute and delayed

Symptoms Burning sensation.***

Indication of immediate medical attention and special treatment needed, if necessary

Note to physicians Treat symptomatically.

Section 5: Firefighting measures

Suitable Extinguishing Media

Suitable Extinguishing Media Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media No information available

Specific hazards arising from the chemical

Specific hazards arising from the chemical No information available.

Flammable properties

Combustion generates toxic fumes.

Explosive properties

Not classified according to GHS criteria.

Hazardous combustion products Silicon dioxide. Carbon monoxide, Carbon dioxide.

Specific/special fire-fighting measures

Specific/special fire-fighting measures No information available.

Special protective equipment and precautions for fire-fighters

Special protective equipment for fire-fighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Evacuate personnel to safe areas. Do not touch or walk through spilled material. Ventilate affected area. Use personal protective equipment as required. **Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.*****

Other Information Use personal protective equipment as required. **Refer to protective measures listed in Sections 7 and 8.*****

For emergency responders Use personal protection recommended in Section 8.

Environmental precautions

See Section 12 for additional ecological information.***

Methods and material for containment and cleaning up

Methods for containment **Prevent further leakage or spillage if safe to do so. Dike far ahead of liquid spill for later disposal.*****

Methods for cleaning up **Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material.*****

Precautions to prevent secondary hazards

Clean contaminated objects and areas thoroughly observing environmental regulations. See section 8 for more information. See section 13 for more information.

Section 7: Handling and storage, including how the chemical may be safely used

Preventive measures for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.***

Precautions for safe handling

General Hygiene Considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.***

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place.***

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

Section 8: Exposure controls and personal protection

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Legend See section 16 for terms and abbreviations

Appropriate engineering controls

Engineering Controls Showers
Eyewash stations
Ventilation systems.

Individual protection measures, such as personal protective equipment

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hand Protection Wear suitable gloves.***

Eye/face protection If splashes are likely to occur, wear safety glasses with side-shields.***

Skin and body protection Wear suitable protective clothing.***

General Hygiene Considerations Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.***

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not allow into any sewer, on the ground or into any body of water.

Thermal hazards None under normal processing.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state	Liquid	Color	colorless
Appearance	aqueous solution	Odor threshold	No data available
Odor	None		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Molecular weight	No information available	
pH	No data available	
Melting point/freezing point	No data available	
Boiling point / boiling range	> 140*** °C*** /*** 284*** °F***	***
Evaporation rate	< 1 (ether = 1)	
Vapor pressure	< 5.026 mm Hg*** /*** < 0.67 kPa*** at*** 25 °C*** /*** 77 °F***	***
Vapor density (air = 1)	> 1	***
Specific gravity (water = 1 / air = 1)	0.98	***
Partition Coefficient (n-octanol/water)	No data available	
Soil Organic Carbon-Water Partition Coefficient	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Dynamic viscosity	No data available	
Kinematic viscosity	No data available	

Solubility(ies)**Water solubility**

<u>Water solubility classification</u>	<u>Water solubility</u>	<u>Water Solubility Temperature</u>
No information available	No data available	No information available

Solubility in other solvents

<u>Chemical Name</u>	<u>Solubility classification</u>	<u>Solubility</u>	<u>Solubility Temperature</u>
None reported	No information available	No data available	No information available

Other Information**Metal Corrosivity**

Steel Corrosion Rate	No data available
Aluminum Corrosion Rate	No data available

Volatile Organic Compounds (VOC) Content

This Product is by Weight 100% an Individual Pure Chemical Substance***

<u>Chemical name</u>	<u>CAS No.</u>	<u>Volatile organic compounds (VOC) content</u>	<u>CAA (Clean Air Act)</u>
Poly(dimethylsiloxane)***	63148-62-9	No data available	-

Explosive properties

Upper explosion limit	No data available
Lower explosion limit	No data available

Flammable properties

Flash point	*** >*** 204*** °C*** /*** 399*** °F***
Method	OC (open cup) ***

Flammability Limit in Air

Upper flammability limit:	No data available
Lower flammability limit:	No data available

Oxidizing properties

No data available.

Bulk density	Not applicable***
Particle Size	No information available
Particle Size Distribution	No information available

Section 10: STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical stability

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact None

Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization

None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

Incompatible materials Strong oxidizing agents, strong acids, and strong bases.

Hazardous Decomposition Products

Silicon dioxide. Carbon monoxide. Carbon dioxide.

Section 11: TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.***
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.***
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation.***
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.***
Symptoms	May cause redness and tearing of the eyes.***
Aggravated Medical Conditions	Skin disorders. Eye disorders.***
Toxicologically synergistic products	None known.
Toxicokinetics, metabolism and distribution	This Product is by Weight 100% an Individual Pure Chemical Substance.***

Product Acute Toxicity Data

This Product is by Weight 100% an Individual Pure Chemical

Oral Exposure Route Substance***
 If available, see ingredient data below***
Dermal Exposure Route If available, see ingredient data below***
Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below***
Inhalation (Vapor) Exposure Route If available, see ingredient data below***
Inhalation (Gas) Exposure Route If available, see ingredient data below***

Unknown Acute Toxicity

0 % of the mixture consists of ingredient(s) of unknown toxicity.***

Acute Toxicity Estimations (ATE)

Not applicable***

ATEmix (oral)	No information available
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

Ingredient Acute Toxicity Data**Oral Exposure Route**

If available, see data below***

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Poly(dimethylsiloxane)*** (100%) CAS#: 63148-62-9	Rat LD ₅₀ ***	> 35000*** mg/kg***	None reported	None reported	Vendor SDS***

Dermal Exposure Route

If available, see data below***

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Poly(dimethylsiloxane)*** (100%) CAS#: 63148-62-9	Rabbit LD ₅₀ ***	> 3000*** mg/kg***	None reported	None reported	Vendor SDS***

Inhalation (Dust/Mist) Exposure Route

If available, see data below***

Chemical name	Endpoint type	Reported dose	Exposure time	Toxicological effects	Key literature references and sources for data
Poly(dimethylsiloxane)*** (100%) CAS#: 63148-62-9	Rat LC ₅₀ ***	> 3*** mg/L***	4 hours***	None reported	Vendor SDS***

Inhalation (Vapor) Exposure Route

If available, see data below

Inhalation (Gas) Exposure Route

If available, see data below

Product Specific Target Organ Toxicity Single Exposure Data**Oral Exposure Route**

If available, see ingredient data below***

Dermal Exposure Route

If available, see ingredient data below***

Inhalation (Dust/Mist) Exposure Route

If available, see ingredient data below***

Inhalation (Vapor) Exposure Route

If available, see ingredient data below***

Inhalation (Gas) Exposure Route

If available, see ingredient data below***

Ingredient Specific Target Organ Toxicity Single Exposure Data**Oral Exposure Route**

If available, see data below***

Dermal Exposure Route

If available, see data below***

Inhalation (Dust/Mist) Exposure Route

If available, see data below***

Inhalation (Vapor) Exposure Route

If available, see data below

Inhalation (Gas) Exposure Route

If available, see data below

Aspiration toxicity

No data available

Product Skin Corrosion/Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Skin Corrosion/Irritation Data

If available, see data below***

Chemical name	Test method	Species	Reported dose	Exposure time	Results	Key literature references and sources for data
Poly(dimethylsiloxane) ^{***} (100%) CAS#: 63148-62-9	Standard Draize Test ^{***}	Rabbit ^{***}	500 ^{***} mg ^{***}	24 ^{***} hours ^{***}	Mild skin irritant ^{***}	RTECS (Registry of Toxic Effects of Chemical Substances) ^{***}

Product Serious Eye Damage/Eye Irritation Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Eye Damage/Eye Irritation Data

No data available

Sensitization Information

Product Sensitization Data

Skin Sensitization Exposure Route

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Respiratory Sensitization Exposure Route

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Sensitization Data

Skin Sensitization Exposure Route

If available, see data below.

Respiratory Sensitization Exposure Route

If available, see data below.

Chronic Toxicity Information

Product Specific Target Organ Toxicity Repeat Dose Data

Oral Exposure Route

If available, see ingredient data below.***

Dermal Exposure Route

If available, see ingredient data below.***

Inhalation (Dust/Mist) Exposure Route

If available, see ingredient data below.***

Inhalation (Vapor) Exposure Route

If available, see ingredient data below.***

Inhalation (Gas) Exposure Route

If available, see ingredient data below.***

Ingredient Specific Target Organ Toxicity Repeat Exposure Data

Oral Exposure Route

If available, see data below

Dermal Exposure Route

If available, see data below

Inhalation (Dust/Mist) Exposure Route

If available, see data below

Inhalation (Vapor) Exposure Route

If available, see data below

Inhalation (Gas) Exposure Route

If available, see data below

Product Carcinogenicity Data

Oral Exposure Route

If available, see ingredient data below***

Dermal Exposure Route

If available, see ingredient data below***

Inhalation (Dust/Mist) Exposure Route

If available, see ingredient data below***

Inhalation (Vapor) Exposure Route

If available, see ingredient data below***

Inhalation (Gas) Exposure Route

If available, see ingredient data below***

Ingredient Carcinogenicity Data

Chemical name	CAS No.	ACGIH	IARC	NTP	OSHA
Poly(dimethylsiloxane) ^{***}	63148-62-9	-	-	-	-

Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply

OSHA (Occupational Safety and Health Administration of the US Department of Labor)	Does not apply
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Oral Exposure Route If available, see data below
Dermal Exposure Route If available, see data below
Inhalation (Dust/Mist) Exposure Route If available, see data below
Inhalation (Vapor) Exposure Route If available, see data below
Inhalation (Gas) Exposure Route If available, see data below

Product Germ Cell Mutagenicity *invitro* Data

This Product is by Weight 100% an Individual Pure Chemical Substance. If available, see ingredient data below.***

Ingredient Germ Cell Mutagenicity *invitro* Data

No data available

Product Germ Cell Mutagenicity *in vivo* Data

Oral Exposure Route If available, see ingredient data below***
Dermal Exposure Route If available, see ingredient data below***
Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below***
Inhalation (Vapor) Exposure Route If available, see ingredient data below***
Inhalation (Gas) Exposure Route If available, see ingredient data below***

Ingredient Germ Cell Mutagenicity *in vivo* Data

Oral Exposure Route If available, see data below
Dermal Exposure Route If available, see data below
Inhalation (Dust/Mist) Exposure Route If available, see data below
Inhalation (Vapor) Exposure Route If available, see data below
Inhalation (Gas) Exposure Route If available, see data below

Product Reproductive Toxicity Data

Oral Exposure Route If available, see ingredient data below***
Dermal Exposure Route If available, see ingredient data below***
Inhalation (Dust/Mist) Exposure Route If available, see ingredient data below***
Inhalation (Vapor) Exposure Route If available, see ingredient data below***
Inhalation (Gas) Exposure Route If available, see ingredient data below***

Ingredient Reproductive Toxicity Data

Oral Exposure Route If available, see data below
Inhalation (Dust/Mist) Exposure Route If available, see data below
Inhalation (Vapor) Exposure Route If available, see data below
Inhalation (Gas) Exposure Route If available, see data below

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Not considered to be harmful to aquatic life

Unknown Aquatic Toxicity 0 % of the mixture consists of components(s) of unknown hazards to the aquatic environment.***

Product Ecological Data

This Product is by Weight 100% an Individual Pure Chemical Substance***

Aquatic toxicity

Fish If available, see ingredient data below***
Crustacea If available, see ingredient data below***
Algae If available, see ingredient data below***

Ingredient Ecological Data

Aquatic toxicity

Fish If available, see ingredient data below***

Chemical name	Exposure	Species	Endpoint	Reported	Key literature references and
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	time		type	dose	sources for data
Poly(dimethylsiloxane))*** (100%) CAS#: 63148-62-9	96 hours***	None reported	LC ₅₀ ***	10000*** mg/L***	ERMA (New Zealand's Environmental Risk Management Authority)***

Crustacea

No data available

Algae

No data available

Other Information**Persistence and degradability****Product Biodegradability Data**

This Product is by Weight 100% an Individual Pure Chemical Substance.***

Ingredient Biodegradability Data**Bioaccumulation****Product Bioaccumulation Data**

This Product is by Weight 100% an Individual Pure Chemical Substance.***

Partition Coefficient (n-octanol/water)

No data available

Ingredient Bioaccumulation Data**Mobility****Soil Organic Carbon-Water Partition Coefficient**

No data available

Water solubility

<u>Water solubility classification</u>	<u>Water solubility</u>	<u>Water Solubility Temperature</u>
No information available	No data available	No information available

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS**Disposal methods****Waste from residues/unused products**

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Contaminated packaging

Do not reuse empty containers.

Section 14: TRANSPORT INFORMATION**ADG**

Not regulated

IATA

Not regulated***

IMDG

Not regulated***

Additional information

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.
 If the item is part of a reagent set or kit the classification would change to the following:
 UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.
 If the item is not regulated, the Chemical Kit classification does not apply.

Section 15: REGULATORY INFORMATION

Regulatory information

National regulations

Australia

Model Work Health and Safety Regulations
 [NOHSC:2011(2003) National Code of Practice for the Preparation of Material Safety Data Sheets
 Labelling of Workplace Hazardous Chemicals Code of Practice
 See section 8 for national exposure control parameters

National pollutant inventory

Not subject to reporting

Banned and/or restricted

No Products Listed.

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Does not comply
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
TCSI	Complies
AICS	Complies
NZIoC	Complies

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

International Regulations

Ozone-depleting substances (ODS) Not applicable

Persistent Organic Pollutants Not applicable

Export Notification requirements Not applicable

Section 16: Any other relevant information

Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH	<i>Immediately Dangerous to Life or Health</i>
ACGIH	ACGIH (American Conference of Governmental Industrial Hygienists)
NDF	<i>no data</i>

Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Ceiling Limit Value	MAC	Maximum Allowable Concentration
X	Listed	Vacated	These values have no official status. The only binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state regulations.
SKN*	Skin designation	SKN+	Skin sensitization
RSP+	Respiratory sensitization	**	Hazard Designation
C	Carcinogen	R	Reproductive toxicant
M	mutagen		

Prepared By Hach Product Compliance Department

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Revision Note

None

Reference Sources for Section 11

See Section 11: TOXICOLOGICAL INFORMATION

Disclaimer

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

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End of Safety Data Sheet