



## Material Safety Data Sheet

Silicone oil, for melting point and boiling point apparatuses

MSDS# 40237

### Section 1 - Chemical Product and Company Identification

MSDS Name: Silicone oil, for melting point and boiling point apparatuses  
Catalog Numbers: AC163850000, AC163850010, AC163855000, S159-500  
Synonyms: Polydimethylsiloxane.

Company Identification: Fisher Scientific  
One Reagent Lane  
Fair Lawn, NJ 07410  
For information in the US, call: 201-796-7100  
Emergency Number US: 201-796-7100  
CHEMTREC Phone Number, US: 800-424-9300

### Section 2 - Composition, Information on Ingredients

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CAS#: 63148-62-9  
Chemical Name: Poly(dimethylsiloxane)  
%: 100  
EINECS#: unlisted  
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Hazard Symbols: None listed  
Risk Phrases: None listed

### Section 3 - Hazards Identification

#### EMERGENCY OVERVIEW

Caution! This is expected to be a low hazard for usual industrial handling. May cause eye and skin irritation. Target Organs:  
None known.

#### Potential Health Effects

Eye: May cause eye irritation.  
Skin: May cause skin irritation. Low hazard for usual industrial handling.  
Ingestion: Low hazard for usual industrial handling.  
Inhalation: Low hazard for usual industrial handling.  
Chronic: No information found.

### Section 4 - First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.  
Skin: Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists.  
Ingestion: Do not induce vomiting. Get medical aid.  
Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.

Notes to  
Physician:

### Section 5 - Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.  
Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Autoignition Temperature: 450 deg C ( 842.00 deg F)

Flash Point: 250 deg C ( 482.00 deg F)

Explosion Limits: Not available  
Lower:

Explosion Limits: Not available  
Upper:

NFPA Rating: health: 1; flammability: 1; instability: 0;

#### Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Forms smooth, slippery surfaces on floors, posing an accident risk. Do not let this chemical enter the environment.

#### Section 7 - Handling and Storage

Handling: Use with adequate ventilation. Do not get in eyes, on skin, or on clothing. Do not ingest or inhale.

Storage: Store in a cool, dry place. Store in a tightly closed container.

#### Section 8 - Exposure Controls, Personal Protection

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Poly(dimethylsiloxane)	none listed	none listed	none listed

OSHA Vacated PELs: Poly(dimethylsiloxane): None listed

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

Personal Protective Equipment

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Section 9 - Physical and Chemical Properties

Physical State: Liquid

Color: clear, colorless

Odor: weak odor

pH: Not available

Vapor Pressure: < 1 mm Hg @ 20 deg C

Vapor Density: Not available

Evaporation Rate: Not available

Viscosity: 500 mPa @ 25 deg C

Boiling Point: > 140 deg C @ 760 mmHg (> 284.00°F)

Freezing/Melting Point: -50 deg C ( -58.00°F)

Decomposition Temperature:

Solubility in water: Insoluble

Specific Gravity/Density: 0.960

Molecular Formula:

Molecular Weight:

#### Section 10 - Stability and Reactivity

Chemical Stability:	Stable under normal temperatures and pressures.
Conditions to Avoid:	Incompatible materials, temperatures above 200°C.
Incompatibilities with Other Materials	Strong oxidizing agents, strong acids, strong bases.
Hazardous Decomposition Products	Carbon monoxide, carbon dioxide, silicon dioxide.
Hazardous Polymerization	Will not occur.

#### Section 11 - Toxicological Information

RTECS#: CAS# 63148-62-9: JT6484500 JT6485000 VU6200000 VW1511000 VX6390000

RTECS:

**CAS# 63148-62-9:** Draize test, rabbit, eye: 100 uL/24H Mild;

Draize test, rabbit, eye: 100 mg/1H Mild;

Draize test, rabbit, eye: 100 uL/24H Moderate;

LD50/LC50: Draize test, rabbit, skin: 500 uL/24H Mild;

Oral, rat: LD50 = >24 gm/kg;

Oral, rat: LD50 = >17 gm/kg;

Skin, rabbit: LD50 = >2 gm/kg;

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Carcinogenicity: Poly(dimethylsiloxane) - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: The toxicological properties have not been fully investigated. See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Other: Do not empty into drains.

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: Not regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

#### Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 63148-62-9: 1

Canada

CAS# 63148-62-9 is listed on Canada's DSL List

Canadian WHMIS Classifications: Not controlled.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations

and the MSDS contains all of the information required by those regulations.  
CAS# 63148-62-9 is not listed on Canada's Ingredient Disclosure List.

US Federal

TSCA

CAS# 63148-62-9 is listed on the TSCA  
Inventory.

Section 16 - Other Information

MSDS Creation Date: 9/02/1997

Revision #7 Date 7/20/2009

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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