

**DOW CORNING CORPORATION  
Material Safety Data Sheet**

**SYLGARD(R) 309 SILICONE SURFACTANT**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**MSDS No.:** 02352494

**SUPPLIER:**  
Dow Corning Corporation  
South Saginaw Road  
Midland, Michigan 48686

**Prepared by Product Safety:** (800) 248-2481  
**NEWALTA:** (800) 567-7455  
**Revision Date:** 2012/07/26

**MANUFACTURER:**  
Dow Corning Corporation  
South Saginaw Road  
Midland, Michigan 48686

**24 Hour Emergency Telephone:** (989) 496-5900

**WHMIS CLASSIFICATION:** Class B, Division 6.  
Class D, Division 2, Subdivision B.

**Material Usage:** Surfactant, Leather treatment, Textile, Thread lubricants, Ink additive,  
Paint additive

**2. HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW**

**Generic Description:** Silicone  
**Physical Form:** Liquid  
**Colour:** Amber  
**Odour:** Characteristic odour

There are no components with workplace exposure limits.

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**POTENTIAL HEALTH EFFECTS**

**Acute Effects**

**Eye:** Direct contact may cause severe irritation.  
**Skin:** No significant irritation expected from a single short-term exposure.  
**Inhalation:** No significant effects expected from a single short-term exposure.  
**Oral:** Low ingestion hazard in normal use.

**Prolonged/Repeated Exposure Effects**

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Skin: Repeated or prolonged exposure may cause irritation.

Inhalation: No known applicable information.

Oral: Repeated ingestion or swallowing large amounts may injure internally.

#### Signs and Symptoms of Overexposure

No known applicable information.

#### Medical Conditions Aggravated by Exposure

No known applicable information.

The above listed potential effects of overexposure are based on actual data, results of studies performed upon similar compositions, component data and/or expert review of the product. Please refer to Section 11 for the detailed toxicology information.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>CAS Number</u>	<u>Wt %</u>	<u>Component Name</u>
125997-17-3	> 60.0	3-(3-Hydroxypropyl) -heptamethyltrisiloxane, ethoxylated, acetate

The ingredients listed above are controlled products as defined in CPR, am. SOR/88-555.

### 4. FIRST AID MEASURES

Eye: Immediately flush the contaminated eye(s) with lukewarm, gently flowing water for 15 - 20 minutes while holding the eyelid(s) open. If contact lens is present, DO NOT delay irrigation or attempt to remove the lens. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately obtain medical attention.

Skin: No health effects expected. If irritation does occur flush with lukewarm, gently flowing water for 5 minutes. If irritation persists, obtain medical advice.

Inhalation: If symptoms are experienced remove source of contamination or move victim to fresh air. If irritation persists, obtain medical advice.

Oral: If irritation or discomfort occur, obtain medical advice.

Notes to Physician: Treat according to person's condition and specifics of exposure.

### 5. FIRE-FIGHTING MEASURES

Flash Point: 212 °F / 100 °C (Pensky-Martens Closed Cup)

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Autoignition Temperature: Not available.

Flammability Limits in Air: Not available.

Extinguishing Media: On large fires use AFFF alcohol compatible foam or water spray (fog). On small fires use AFFF alcohol compatible foam, CO<sub>2</sub> or water spray (fog). Water can be used to cool fire exposed containers. Do not allow extinguishing medium to contact container contents. Most fire extinguishing media will cause hydrogen evolution. When the fire is put out, hydrogen may accumulate in poorly ventilated or confined areas and result in flash fire or explosion if ignited. Foam blankets may also trap hydrogen or flammable vapors, with the possibility of subsurface explosion.

Unsuitable Extinguishing Media: Dry chemical.

Fire Fighting Measures: Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals. Use water spray to keep fire exposed containers cool. Determine the need to evacuate or isolate the area according to your local emergency plan.

Unusual Fire Hazards: None.

**6. ACCIDENTAL RELEASE MEASURES**

Containment/Clean up: Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protection equipment recommendations described in Sections 5 and 8. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked material can be pumped, store recovered material in appropriate container. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Recovered material should be stored in a vented container. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since spilled materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. Dispose of saturated absorbant or cleaning materials appropriately, since spontaneous heating may occur. Local, provincial, federal laws and regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases.

Note: See Section 8 for Personal Protective Equipment for Spills. Refer to Section 1 to obtain telephone numbers, if additional information is required.

**7. HANDLING AND STORAGE**

Use with adequate ventilation. Avoid eye contact. Avoid skin contact. Do not take internally.

Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Do not store in glass containers which may shatter due to pressure build up. Clogged container vents may increase pressure build up. Keep container closed and store away from water or moisture.

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#### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

##### Component Exposure Limits

There are no components with workplace exposure limits.

##### Engineering Controls

Local Ventilation: Recommended.  
General Ventilation: Recommended.

##### Personal Protective Equipment for Routine Handling

Eyes: Use chemical worker's goggles.

Skin: Washing at mealtime and end of shift is adequate.

Suitable Gloves: Avoid skin contact by implementing good industrial hygiene practices and procedures. Select and use gloves and/or protective clothing to further minimize the potential for skin contact. Consult with your glove and/or personnel protective equipment manufacturer for selection of appropriate compatible materials.

Inhalation: No respiratory protection should be needed.

Suitable Respirator: None should be needed.

##### Personal Protective Equipment for Spills

Eyes: Use chemical worker's goggles.

Skin: Washing at mealtime and end of shift is adequate.

Inhalation/Suitable Respirator: No respiratory protection should be needed.

Precautionary Measures: Avoid eye contact. Avoid skin contact. Do not take internally. Use reasonable care.

Note: These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions. For further information regarding aerosol inhalation toxicity, please refer to the guidance document regarding the use of silicone-based materials in aerosol applications that has been developed by the silicone industry ([www.SEHSC.com](http://www.SEHSC.com)) or contact the Dow Corning customer service group.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid  
Color: Amber  
Odor: Characteristic odour  
Odor Threshold: Not available.

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Specific Gravity @ 25°C: 1.031  
 Viscosity: 30 cSt  
 Freezing/Melting Point: Not available.  
 Boiling Point: > 65 °C  
 Vapor Pressure @ 25°C: Not available.  
 Vapor Density: Not available.  
 Evaporation Rate: Not available.  
 Solubility in Water: Not available.  
 Coefficient of Water/Oil: Not available.  
 Distribution:  
 pH: Not available.  
 Volatile Content: Not available.

Flash Point: 212 °F / 100 °C (Pensky-Martens Closed Cup)  
 Autoignition Temperature: Not available.  
 Flammability Limits in Air: Not available.

Note: The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

#### 10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Hazardous polymerization will not occur.

Polymerization:  
 Conditions to Avoid: None.

Materials to Avoid: Oxidizing material can cause a reaction. Water, alcohols, acidic or basic materials, and many metals or metallic compounds, when in contact with product, liberate flammable hydrogen gas, which can form explosive mixtures in air.

#### 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.

#### 11. TOXICOLOGICAL INFORMATION

##### Acute Toxicology Data for Product

	<u>Species</u>	<u>Test Results</u>
Dermal LD50:	Rabbit	> 2,000 mg/kg

##### Additional Toxicology Information on Product

Four groups of ten male and female rats were dosed orally, five days per week for 28 days, with SYLGARD(R) 309 at 0,

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33, 300 and 1000 mg/kg/day. During the study the animals were monitored for clinical signs of toxicity and mortality, body weight gain and food consumption. After 28 days, the rats were sacrificed and subjected to urinalysis and hematological and clinical chemistry analysis, and gross and microscopic tissue examination. No significant findings of biological relevance were seen in female rats. Minor treatment related effects, primarily body weight gain and food consumption, were seen in male rats of the 1000 mg/kg/day dose group.

Results of the acute toxicology studies listed above are based on actual testing of this product and/or testing of similar products.

**Component Toxicology Information**

A component of this material applied to the skin of rabbits at very large doses for a 24 hour contact caused injury to the lungs. This may be a unique response with rabbits and its significance to humans is unknown.

**Special Hazard Information on Components**

No known applicable information.

**12. ECOLOGICAL INFORMATION**

**Environmental Fate and Distribution**

Complete information is not yet available.

**Environmental Effects**

Fish: Pimephales promelas; 96 Hrs; LC50; 4.3 mg/l

Daphnia: Daphnia magna; 48 Hrs; LC50; 41 mg/l

**Fate and Effects in Waste Water Treatment Plants**

Complete information is not yet available.

**Ecotoxicity Classification Criteria**

Hazard Parameters (LC50 or EC50)	High	Medium	Low
Acute Aquatic Toxicity (mg/L)	<=1	>1 and <=100	>100
Acute Terrestrial Toxicity	<=100	>100 and <= 2000	>2000

This table is adapted from "Environmental Toxicology and Risk Assessment", ASTM STP 1179, p.34, 1993.

This table can be used to classify the ecotoxicity of this product when ecotoxicity data is listed above. Please read the other information presented in the section concerning the overall ecological safety of this material.

**13. DISPOSAL CONSIDERATIONS**

Can be incinerated in accordance with local regulations.

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Call local hazardous waste disposal company or provincial waste authorities for more information. Refer to Section 1 to obtain telephone numbers, if additional information is required.

**14. TRANSPORT INFORMATION**

**Canada Road (Based on IMDG Regulations)**

Not subject to local road regulations.

**Ocean Shipment (IMDG)**

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

Hazard Technical Name: 1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO))acetate)trisiloxane

Hazard Class: 9

UN/NA Number: UN 3082

Packing Group: III

Hazard Label(s): miscellaneous

Marine Pollutant: 1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO))acetate)trisiloxane

**Air Shipment (IATA)**

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s.

Hazard Technical Name: 1,1,1,3,5,5-Heptamethyl-3-(propyl(poly(EO))acetate)trisiloxane

Hazard Class: 9

UN/NA Number: UN 3082

Packing Group: III

Hazard Label(s): Miscellaneous dangerous goods

Apply Gross Wt Supplemental Label to Outer Package if shipping Limited Quantity

Remarks: VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

Refer to Section 1 to obtain telephone numbers, if additional information is required.

**15. REGULATORY INFORMATION**

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This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

WHMIS Class B, Division 6.

CLASSIFICATION: Class D, Division 2, Subdivision B.

DSL Status: All chemical substances in this material are included on or exempted from the DSL.

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

**16. OTHER INFORMATION**

Prepared by: Dow Corning Corporation

These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is hereby made. The recommended industrial hygiene and safe handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific context of the intended use and determine whether they are appropriate.

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