

SYLGARD(R) 309 SILICONE SURFACTANT**1. PRODUCT AND COMPANY IDENTIFICATION**

MSDS No.: 02352494

SUPPLIER:
Dow Corning Canada Inc.
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Mississauga, ON, Canada L5N 3E7Prepared by Product Safety: (800) 248-2481
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Revision Date: 2009/12/01**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**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****Skin:** Repeated or prolonged exposure may cause irritation.

SYLGARD(R) 309 SILICONE SURFACTANT

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)

Autoignition Temperature: Not available.

SYLGARD(R) 309 SILICONE SURFACTANT

Flammability Limits in Air: Not available.

Extinguishing Media: On large fires use dry chemical, foam or water spray. On small fires use carbon dioxide (CO₂), 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. 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. 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. Call (989) 496-5900, if additional information is required.

7. HANDLING AND STORAGE

Use with adequate ventilation. Trace quantities of ethylene oxide (EO) may be present and could accumulate in headspace of storage and transport vessels, but are not expected to cause EO concentrations above exposure limits. 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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Component Exposure Limits**

There are no components with workplace exposure limits.

Engineering Controls

Local Ventilation: None should be needed.

SYLGARD(R) 309 SILICONE SURFACTANT

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.

Comments: Trace quantities of ethylene oxide (EO) may be present and could accumulate in headspace of storage and transport vessels, but are not expected to cause EO concentrations above exposure limits.

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) 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.

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.

SYLGARD(R) 309 SILICONE SURFACTANT

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.

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 INFORMATIONAcute 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, 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.

SYLGARD(R) 309 SILICONE SURFACTANT

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

Complete information is not yet available.

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.

Call local hazardous waste disposal company or provincial waste authorities for more information.

14. TRANSPORT INFORMATION**Canada Road (Based on IMDG Regulations)**

SYLGARD(R) 309 SILICONE SURFACTANT

Not subject to local road regulations.

Ocean Shipment (IMDG)

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

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

Hazard Class: 9

UN/NA Number: UN 3082

Packing Group: III

Hazard Label(s): miscellaneous

Air Shipment (IATA)

Not subject to IATA regulations.

Remarks: VENTED PACKAGES ARE FORBIDDEN FOR AIR TRANSPORT.

Call Dow Corning Transportation, (989) 496-8577, if additional information is required.

15. REGULATORY INFORMATION

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

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

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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