1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

MSDS No.: 01645196

Revision Date: 2006/12/12

Generic Description: Silicone Physical Form: Liquid Color: Colorless Odor: Odorless

NFPA Profile: Health 0 Flammability 2 Instability/Reactivity 0

Note: NFPA = National Fire Protection Association

2. HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS

Acute Effects

Eye:	Direct contact may cause temporary redness and discomfort.	
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 Expo	sure Effects	
Skin:	No known applicable information.	
Inhalation:	No known applicable information.	
Oral:	No known applicable information.	
Signs and Symptoms of Overexposure		
No known applicable in	formation.	
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

CAS Number Wt % Component Name

541-02-6 > 60.0 Decamethylcyclopentasiloxane

The above components are hazardous as defined in 29 CFR 1910.1200.

4. FIRST AID MEASURES

Eye:	Immediately flush with water.
Skin:	No first aid should be needed.
Inhalation:	No first aid should be needed.
Oral:	No first aid should be needed.
Notes to Physician:	Treat symptomatically.
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5. FIRE FIGHTING MEASURES

Flash Point:	170.6 °F / 77 °C (Tag Closed Cup) 171 °F / 77.2 °C (Cleveland Open Cup)
Autoignition Temperature:	737.6 °F / 392 °C
Flammability Limits in Air:	Lower Limit: 0.70 %
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. 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.

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, state and 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. You will need to determine which federal, state and local laws and regulations are applicable. Sections 13 and 15 of this MSDS provide information regarding certain federal and state requirements.

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. Avoid eye contact.

Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge. Keep container closed and away from heat, sparks, and flame.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

 CAS Number
 Component Name
 Exposure Limits

 541-02-6
 Decamethylcyclopentasiloxane
 Dow Corning guide: TWA 10 ppm.

 Engineering Controls
 Exposure Limits

 Local Ventilation:
 Recommended.

Personal Protective Equipment for Routine Handling

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

Eyes: Use proper protection - safety glasses as a minimum.

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

Inhalation/Suitable No respiratory protection should be needed.

Respirator:

Precautionary Measures: Avoid eye contact. 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) or contact the Dow Corning customer service group.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid Color: Colorless Odor: Odorless Specific Gravity @ 25°C: 0.95 Viscosity: 3.8 mm2/s

Freezing/Melting Point:	-44 °C
Boiling Point:	211 °C
Vapor Pressure @ 25°C:	0.015 kPa
Vapor Density:	Not determined.
Solubility in Water:	< 0.05 mg/L
pH:	Not determined.
Volatile Content:	Not determined.
Flash Point:	170.6 °F / 77 °C (Tag Closed Cup)171 °F / 77.2 °C (Cleveland Open Cup)

Autoignition Temperature: 737.6 °F / 392 °C Flammability Limits in Air: Lower Limit: 0.70 %

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.

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>	Test Results	Type of Test
Inhalation LC50:	Rat	8.67 mg/L	4hr Vapor/Aerosol
Mutagenicity:	Tissue Culture	Negative	Mouse Lymphoma

Component Toxicology Information

Recent results from a 2 year repeated vapour inhalation exposure study to rats of decamethylcyclopentasiloxane (D5) indicate effects (uterine endometrial tumors) in female animals. These effects, which have been shown to be rat-specific, occur at the highest exposure dose (160 ppm) only, a level that greatly exceeds typical workplace or consumer exposures. Industrial, commercial, or consumer uses of products containing D5 do not represent a risk to humans.

Special Hazard Information on Components

No known applicable information.

12. ECOLOGICAL INFORMATION

Environmental Fate and Distribution			
Air:	Low molecular weight volatile siloxanes in air are degraded by reaction with hydroxyl radicals, which is the dominant degradation process for most chemicals in the atmosphere.		
Water:	Low molecular weight volatile siloxanes have very low water solubility and evaporate to air.		
Soil:	Low molecular weight volatile siloxanes in soil are removed by several simultaneously occurring processes including volatilization, hydrolysis, and clay-catalyzed degradation.		
Environmental Effects			
Toxicity to Water Organisms:	This product is volatile and has a very short half life in the aquatic environment and therefore does not present a risk to aquatic organisms.		

Toxicity to Soil Organisms: Due to its volatility, this product is unlikely to be found in the terrestrial compartment.

Bioaccumulation: Low molecular weight volatile siloxanes bioconcentrate in fish exposed under controlled laboratory conditions that are not representative of conditions found in the environment.

Fate and Effects in Waste Water Treatment Plants

Low molecular weight volatile siloxanes are efficiently removed (>90%) during wastewater treatment with approximately equal amounts going to the atmosphere and the sludge. Low molecular weight volatile siloxanes in treated wastewater effluent will be bound to particulate matter because of very low water solubility.

	Ecotoxicity Cla	assification 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 adopted from "Environmental Tavicology and Dick Assessment" ASTM STD 1170 p. 24, 1002				

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

RCRA Hazard Class (40 CFR 261)

When a decision is made to discard this material, as received, is it classified as a hazardous waste? No

State or local laws may impose additional regulatory requirements regarding disposal.Call (989) 496-6315, if additional information is required.

14. TRANSPORT INFORMATION

DOT Road Shipment Information (49 CFR 172.101)

Proper Shipping Name: Combustible liquid, n.o.s.

Hazard Technical Name: CYCLOSILOXANE

- Hazard Class: C
- UN/NA Number: NA 1993
- Packing Group: III
- Hazard Label(s): None

Ocean Shipment (IMDG)

Not subject to IMDG code.

Air Shipment (IATA)

Not subject to IATA regulations.

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

15. REGULATORY INFORMATION

Contents of this MSDS 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.

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: Yes 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

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.

New Jersey		
CAS Number	<u>Wt %</u>	Component Name
541-02-6	> 60.0	Decamethylcyclopentasiloxane
None	<=4.0	Dimethylcyclosiloxanes
Pennsylvania		
CAS Number	<u>Wt %</u>	Component Name
<u>CAS Number</u> 541-02-6	<u>Wt %</u> > 60.0	<u>Component Name</u> Decamethylcyclopentasiloxane

16. OTHER INFORMATION

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.