

DOW CORNING CORPORATION
 MATERIAL SAFETY DATA SHEET

SYLGARD(R) 184 SILICONE ELASTOMER

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 !SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION !
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!Dow Corning Corporation	!	24 Hour Emergency Telephone:	!(517) 496-5900	!
!South Saginaw Road	!	Customer Service:	!(517) 496-6000	!
!Midland, Michigan 48686	!	Product Disposal Information:	!(517) 496-6315	!
!	!	Transportation Information:	!(517) 496-8577	!
!	!	CHEMTREC:	!(800) 424-9300	!

!MSDS No: 2680068 Current Version: !
 !10/15/96 !
 ! !

! Generic Description: Silicone !
 ! Physical Form: Liquid !
 ! Color: Colorless !
 ! Odor: Some odor !
 ! NFPA Profile: Health 1 Flammability 1 Reactivity 0 !

!Note: NFPA = National Fire Protection Association !

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 !SECTION 2. OSHA HAZARDOUS COMPONENTS !
 +-----+-----+-----+

!CAS Number	!Wt%	!Component	!Exposure Limits	!
!068988896	!34	!Dimethylvinylated and trimethylated silica	!Dow Corning guide: 5 mg/m3 Ceiling (as dust).	!

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

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 !SECTION 3. EFFECTS OF OVEREXPOSURE !
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!Acute Effects !

!Eye: Direct eye contact may cause temporary discomfort with mild redness and dryness similar to windburn. !

!Skin: A single prolonged exposure (24 to 48 hours) causes no known adverse effect. !

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!Inhalation: No irritation to eyes and respiratory passages. No injury is
! likely from relatively short exposures of less than 8 hours. !

!
!Oral: Small amounts transferred to the mouth by fingers during use,
! etc., should not injure. Swallowing large amounts may cause
! digestive discomfort. !

!Repeated Exposure Effects !

!Skin: None Known. !

!
!Inhalation: None Known. !

!
!Oral: None Known. !

!Special Hazards !

!This material contains the following components with the special hazards
!listed below. !

!Carcinogens !

!None Known !

!Teratogens !

!None Known !

!Mutagens !

!None Known !

!Reproductive Toxins !

!None Known !

!Sensitizers !

!None Known !

!Comments: Please read the additional information below. !

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!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. !
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!SECTION 4. FIRST AID MEASURES !

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!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. !
! !
!Comments: Treat symptomatically. !
! !
+-----+
+-----+

!SECTION 5. FIRE FIGHTING MEASURES !

+-----+
!Flash Point (Closed Cup): 249.98 DEGREE F / 121.10 DEGREE C !
!Autoignition Temperature: Not Determined !
! !
!Flammability Limits in Air: Not Determined !
! !
!Extinguishing Media: Water spray. Carbon dioxide (CO2). Dry !
! chemical. Foam. Water can be used to cool fire !
! exposed containers. !
! !
!Fire Fighting Procedures: Self-contained breathing apparatus and !
! protective clothing should be worn in fighting !
! fires involving chemicals. Determine the need !
! to evacuate or isolate the area according to !
! your local emergency plan. !
! !
!Unusual Fire Hazards: None !
! !
! !
!Hazardous Decomposition Products: !
+-----+
! !

!Thermal breakdown of this product during fire or very high heat conditions !
!may evolve the following hazardous decomposition products: Carbon oxides and!

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!traces of incompletely burned carbon compounds. Silicon dioxide. !
!Formaldehyde. !

!SECTION 6. ACCIDENTAL RELEASE MEASURES !

! Containment/Clean-up: Disposal of collected product, residues, and cleanup !
! materials may be governmentally regulated. Observe all !
! applicable local, state, and federal waste management !
! regulations. Mop up, or wipe up, or soak up with !
! absorbent and contain for salvage or disposal. Clean any !
! remaining slippery surfaces by appropriate techniques, !
! such as: several moppings or swabbings with appropriate !
! solvents; washing with mild, caustic detergents or !
! solutions; or high pressure steam for large areas. For !
! nonsilicones, use typical industrial cleaning materials. !
! Observe any safety precautions applicable to the cleaning !
! material being used. Observe all personal protection !
! equipment recommendations described in Sections 5 and 8. !
! Local, state, and federal reporting requirements may apply !
! to spills or releases of this material into the !
! environment. See applicable regulatory compliance !
! information in Section 15. !

!NOTE: See Section 8 for Personal Protective Equipment for Spills !

!SECTION 7. HANDLING AND STORAGE !

! Handling: No special precautions. !
! Storage: No special precautions. Use reasonable care. !

!SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION !

!Engineering Controls !

!Local exhaust: None should be needed !

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!General 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: No special protection needed.

!Inhalation: No respiratory protection should be needed.

!Suitable Respirator: None should be needed.

!Personal Protective Equipment For Spills

!Eye: Use proper protection - safety glasses as a minimum.

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

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

!Precautionary Measures: Avoid eye contact. Use reasonable care.

!Comments: None

!Note: These precautions are for room temperature handling. Use at elevated
! temperature, or aerosol/spray applications, may require added
! precautions.-----
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!SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES
+-----+! Physical form: Liquid
! Color: Colorless
! Odor: Some odor

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Specific Gravity @ 25C: 1.05
 Viscosity: 5000.00 CST
 Freezing/Melting Point: Not Applicable.
 Boiling Point: Not Available.
 Vapor Pressure @ 25C: Not Determined.
 Vapor Density: Not Determined.
 Solubility in Water: Not Determined.
 pH: Not Applicable.
 Volatile content: Not Determined.

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

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 !SECTION 10. STABILITY AND REACTIVITY !

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 !
 !Chemical Stability: Stable. !
 !
 !Hazardous Polymerization: Hazardous polymerization will not occur. !
 !
 !Conditions to Avoid: None. !
 !
 !Materials to Avoid: Oxidizing material can cause a reaction. !
 !
 !Comments: None !
 !

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 !SECTION 11. TOXICOLOGICAL INFORMATION !

+-----+
 !OPTIONAL SECTION - Complete information not yet available. !
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 !SECTION 12. ECOLOGICAL INFORMATION !

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 !OPTIONAL SECTION - Complete information not yet available. !
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!SECTION 13. DISPOSAL INFORMATION

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!RCRA Hazard Class (40CFR 261)

!
!When a decision is made to discard this material, as received, is it
!classified as a hazardous waste? N

!
!Federal Hazardous Waste Code: NA

!
!Characteristic Waste: Ignitable: NA Corrosive: NA Reactive: NA

!
!TCLP: NA

!
!State or local laws may impose additional regulatory requirements regarding
!disposal.

!
!NA = Not Applicable

!
!Call Dow Corning Corporate Environmental Management, (517)496-6315, if
!additional information is required.

+-----+
!SECTION 14. TRANSPORT INFORMATION

+-----+
!DOT Information (49CFR 172.101)

!
!Proper Shipping Name: Not Applicable

!
!Hazard Technical Name: Not Applicable

!
!Hazard Class: Not Applicable

!
!UN/NA Number: 0000

!
!Packing Group: NA

!
!0000 and NA = Not Applicable

!
!Call Dow Corning Transportation, (517)496-8577, if additional information is
!required.

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!SECTION 15. REGULATORY INFORMATION
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! Contents of this MSDS comply with the OSHA Hazard Communication Standard
! 29CFR 1910.1200

! TSCA Status: All chemical substances found in this product comply with the
! Toxic Substances Control Act inventory reporting requirements.

! EPA SARA Title III Chemical Listings:

! Section 302 Extremely Hazardous Substances:
! None

! Section 304 CERCLA Hazardous Substances:
! 001330207 .7 Xylene 100.00 LB RQ

! Section 312 Hazard Class:

! Acute: N
! Chronic: N
! Fire: N
! Pressure: N
! Reactive: N

! Y = Yes N = No

! Section 313 Toxic Chemicals:
! None present or none present in regulated quantities.

!Supplemental State Compliance Information

! CAS Wt% Component
! --- ---
! Number

! California
!
!
!-----

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! 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. !

! None Known. !

! 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 birth defects or !
! other reproductive harm. !

! None Known. !

! Massachusetts

! No ingredient regulated by MA Right-to-Know Law present. !

! New Jersey

! 068083192	! 64	! Dimethyl siloxane, dimethylvinyl-terminated	!
! 068988896	! 34	! Dimethylvinylated and trimethylated silica	!
! 003555473	! 1	! Tetra(trimethylsiloxo) silane	!

! Pennsylvania

! 068988896	! 34	! Dimethylvinylated and trimethylated silica	!
! 068083192	! 64	! Dimethyl siloxane, dimethylvinyl-terminated	!

!SECTION 16. OTHER INFORMATION

! Prepared by: Dow Corning Corporation !

! This information is offered in good faith as typical values and not as a !
! product specification. No warranty, 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 !

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!recommendations in the specific context of the intended use and determine !
!whether they are appropriate. !
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