

**DOW CORNING(R) 983(KR) SILICONE GLAZING & CURTAINWALL C/A****1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER****1.1 Product Details**

**Product Name:** DOW CORNING(R) 983(KR) SILICONE GLAZING & CURTAINWALL C/A  
**Other Name:** Silicone compound  
**Company Product Code:** 04082558  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (Contains Methoxysilane / Methanol)  
**Recommended Use:** Sealant and adhesive

**1.2 Company Details**

**Manufacturer/Supplier:** Dow Corning Australia Pty Ltd, ABN 36 008 444 166  
**Address:** Darling Park, Tower 2 Locked Bag 2095  
 Level 20, 201 Sussex Street North Ryde NSW 1670  
 Sydney NSW 2000  
**24/7 Emergency Telephone Number** 1300-360-732

**2. HAZARD IDENTIFICATION**

- 2.1 Hazard Classification:** Hazardous Substance. Dangerous Goods.
- 2.2 Risk Phrase(s):** Flammable.  
Harmful if swallowed.  
Irritating to eyes.  
May cause sensitization by skin contact.
- 2.3 Safety Phrase(s):** Do not breathe vapour.  
Take precautionary measures against static discharges.  
Wear suitable gloves and eye/face protection.  
Use only in well-ventilated areas.  
Avoid release to the environment. Refer to special instructions/Safety data sheets.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

<u>Chemical Name</u>	<u>CAS Number</u>	<u>Proportion %</u>
Methyltrimethoxysilane	1185-55-3	10 - <30
Organosilanes	474530-85-3	10 - <30
Aminoethylaminopropyltrimethoxysilane	1760-24-3	<10
Methylated silica	68611-44-9	<10
Gamma-Aminopropyl triethoxysilane	919-30-2	<10
Methyl alcohol	67-56-1	<1
Dimethyl tin di-neodecyl ester	68928-76-7	<1

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Ingredients determined not to be hazardous to 100%

**4. FIRST AID MEASURES****4.1 First Aid Measures:**

**Ingestion:** Get medical attention.  
**Eye:** Immediately flush with water for 15 minutes. Get medical attention.  
**Skin:** Remove from skin and immediately flush with water for 15 minutes. Get medical attention if irritation or ill effects develop or persist.  
**Inhalation:** Remove to fresh air. Get medical attention if ill effects persist.

**4.2 Medical Attention and Special Treatment Needed:**

**First Aid Facilities:** None should be required.  
**Comments:** Treat according to person's condition and specifics of exposure.  
**Note to physicians:** Treat Symptomatically. For further information, the Medical Practitioner should contact Dow Corning Australia Pty Ltd.

**5. FIRE-FIGHTING MEASURES**

- 5.1 Suitable Extinguishing Media:** On large fires use dry chemical or foam. On small fires use CO2 or dry chemical. Water can be used to cool fire exposed containers.
- 5.2 Unsuitable Extinguishing Media:** Water. Do not allow extinguishing medium to contact container contents.
- 5.3 Hazards From Combustion Products:** Vapors are heavier than air and may travel to a source of ignition and flash back. Static electricity will accumulate and may ignite vapors. Prevent a possible fire hazard by bonding and grounding or inert gas purge.
- 5.4 Precautions For Fire Fighters and Special Protective Equipment:** Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool. Self-contained breathing apparatus and protective clothing should be worn in fighting large fires involving chemicals.
- 5.5 Hazchem Code:** ●3Y

**6. ACCIDENTAL RELEASE MEASURES**

- 6.1 Emergency Procedures:** HIGHLY FLAMMABLE: These products have a low flash point - will be easily ignited by heat, sparks or flames at ambient temperatures. ELIMINATE all ignition sources within at least 50 m - All equipment used in handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours. Absorb spill with earth, sand or other non-combustible material - Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. Water spray may be used to knock down or divert vapour clouds.

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- 6.2 Methods and Materials for Containment and Clean Up Procedures:** Remove possible ignition sources. Determine whether to evacuate or isolate the area according to your local emergency plan. Observe all personal protective equipment recommendations described in this MSDS. 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. 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 laws and regulations are applicable.

**7. HANDLING AND STORAGE**

- 7.1 Precautions for Safe Handling:** Use with adequate ventilation. Product evolves flammable methyl alcohol when exposed to water or humid air. Provide ventilation during use to control methyl alcohol exposures within exposure guidelines or use air-supplied or self-contained breathing apparatus. Product evolves ethyl alcohol on exposure to water or humid air. Provide ventilation during use to control ethanol exposures within exposure guidelines or use respiratory protection. Avoid skin and eye contact. Avoid breathing vapor, mist, dust, or fumes. Keep container closed. Do not take internally. Remove contaminated clothing immediately. Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking.
- 7.2 Conditions for Safe Storage:** 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. Keep container closed and store away from water or moisture.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Exposure Standards:**

<u>Ingredients</u>	<u>Exposure Limits</u>
Methyltrimethoxysilane	Dow Corning guide: TWA 50 ppm. Also see methyl alcohol comments. No biological limit allocated.
Organosilanes	See methyl alcohol and ethyl alcohol comments. No biological limit allocated.
Aminoethylaminopropyltrimethoxysilane	See methyl alcohol comments. No biological limit allocated.
Methylated silica	Dow Corning guide: 5 mg/m <sup>3</sup> Ceiling (as dust). No biological limit allocated.
Gamma-Aminopropyl triethoxysilane	See ethyl alcohol comments. No biological limit allocated.
Methyl alcohol	Australia: TWA 200 ppm (262 mg/m <sup>3</sup> ). STEL 250 ppm (328 mg/m <sup>3</sup> ). Can be

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absorbed through the skin.

OSHA PEL (final rule): TWA 200 ppm, 260 mg/m<sup>3</sup> and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.

ACGIH-BEI: Methanol in urine- 15 mg/L (end of shift).

Dimethyl tin di-neodecyl ester Australia: TWA 0.1 mg/m<sup>3</sup> as Sn. STEL 0.2 mg/m<sup>3</sup> as Sn. Can be absorbed through the skin.  
Observe organic tin compounds limits. OSHA PEL and ACGIH TLV-skin: TWA 0.1 mg/m<sup>3</sup>; ACGIH STEL 0.2 mg/m<sup>3</sup>.  
No biological limit allocated.

Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of Worksafe Australia: TWA 200 ppm, STEL, 250 ppm, skin absorption; OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm. Ethyl alcohol is formed upon contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL (final rule): TWA 1000 ppm and ACGIH TLV: STEL 1000 ppm.

**8.2 Engineering Controls:**

**Local Ventilation:** Recommended.  
**General Ventilation:** Recommended.

**8.3 Personal Protective Equipment:**

**Respiratory:** Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines. IH personnel can assist in judging the adequacy of existing engineering controls.

**Suitable Respirator:** Organic Vapor/Dust/Mist/Fume Type.

**Hand:** Chemical protective gloves should be worn.

**Eye:** Use chemical worker's goggles.

**Skin:** Wash at mealtime and end of shift. If skin contact occurs, change contaminated clothing as soon as possible and thoroughly flush affected areas with cool water. Chemical protective gloves are recommended.

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**

**9.1 Physical Form:** Viscous Liquid  
**9.2 Colour:** Black  
**9.3 Odour:** Amine-like odor  
**9.4 pH:** Not determined.  
**9.5 Vapour Pressure @ 25°C:** Not determined.  
**9.6 Vapour Density (air=1):** Not determined.  
**9.7 Boiling Point:** > 94 °C  
**9.8 Melting Point:** Not determined.  
**9.9 Solubility in Water:** Not determined.  
**9.10 Specific Gravity @ 25°C:** 1.08  
**9.11 Flash Point:** 27 °C (Tag Closed Cup)

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9.12	<b>Upper Flammability Limit:</b>	Not determined.
9.13	<b>Lower Flammability Limit:</b>	Not determined.
9.14	<b>Autoignition Temperature:</b>	Not determined.
9.15	<b>Viscosity:</b>	30,000 mPa s

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

**10. STABILITY AND REACTIVITY**

10.1	<b>Chemical Stability:</b>	Stable.
10.2	<b>Conditions to avoid:</b>	None.
10.3	<b>Incompatible Materials:</b>	Can react with strong oxidising agents. Water, moisture or humid air can cause hazardous vapors to form.
10.4	<b>Hazardous Decomposition Products:</b>	Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Nitrogen oxides. Metal oxides.
10.5	<b>Hazardous Reactions :</b>	Hazardous polymerization will not occur.

**11. TOXICOLOGICAL INFORMATION**

11.1	<b>Possible Routes of Exposure</b>	<input checked="" type="checkbox"/> Inhalation	<input checked="" type="checkbox"/> Skin Contact	<input checked="" type="checkbox"/> Ingestion
11.2	<b>Possible Health Effects:</b>			
	<b><u>Acute</u></b>			
	<b>Ingestion:</b>	Overexposure by ingestion may cause effects similar to those listed under repeated exposure.		
	<b>Eye:</b>	Direct contact may cause severe irritation.		
	<b>Skin:</b>	May cause moderate irritation.		
	<b>Inhalation:</b>	Vapor may irritate nose and throat. Vapor overexposure may cause drowsiness.		
	<b><u>Chronic</u></b>			
	<b>Ingestion:</b>	Repeated ingestion or swallowing large amounts may injure internally. Product generates methyl alcohol which may cause blindness and possibly death if swallowed.		
	<b>Skin:</b>	Overexposure may injure internally if absorbed. Repeated or prolonged exposure may irritate seriously. Repeated skin contact may cause allergic skin reaction.		
	<b>Inhalation:</b>	Prolonged or repeated exposure by inhalation may injure internally. Product generates methyl alcohol which may cause blindness and damage to nervous system.		

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**Other Health Hazard Information:** Prolonged overexposure to Ethanol has caused human birth defects.

The above listed potential effects of overexposure are based on actual data, the results of studies performed upon similar compositions, component data, and/or expert review of the products.

**12. ECOLOGICAL INFORMATION****12.1 Environmental Fate and Distribution:**

Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded. This product hydrolyses in water or moist air, releasing methanol and organosilicons.

**12.2 Ecotoxicity:**

Harmful to aquatic organisms and may cause long-term adverse effects in the aquatic environment.

**Bioaccumulation:** Organotin compounds can bioaccumulate.

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

Removed > 90% by binding onto sewage sludge. May cause adverse effects on bacteria. The siloxanes in this product do not contribute to the BOD.

**13. DISPOSAL CONSIDERATIONS**

**13.1 Disposal Method:** Dispose of in accordance with local regulations.

**13.2 Special Precautions for Landfill or Incineration:** None known.

**14. TRANSPORT INFORMATION**

**14.1 UN No.:** 1993  
**14.2 Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S. (Contains Methoxysilane / Methanol)  
**14.3 Class:** 3  
**14.4 Packing Group:** III  
**14.5 Hazchem Code:** ●3Y  
**14.6 Sea transport (IMDG)**  
**Class:** 3  
**Proper Shipping Name:** FLAMMABLE LIQUID, N.O.S.  
**Technical Name:** Methoxysilane / Methanol  
**UN No.:** UN 1993  
**Packing Group:** III  
**Hazard Label(s):** flammable liquid  
**14.7 Air Transport (IATA-DGR)**  
**Class:** 3  
**Proper Shipping Name:** Flammable liquid, n.o.s.  
**Technical Name:** Methoxysilane / Methanol  
**UN No.:** UN 1993  
**Packing Group:** III

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Hazard Label(s): Flammable Liquid

**15. REGULATORY INFORMATION**

- 15.1 SUSDP Poisons Schedule Number:** None allocated.
- 15.2 Prohibition/Licensing Requirements:** There are no applicable prohibition or notification/licensing requirements, including for carcinogens under Commonwealth, State or Territory legislation.
- 15.3 Industrial Chemicals (Notification and Assessment) Act 1989:** All ingredients listed or exempt.
- 15.4 HSNO Approval Code:** HSR002662
- 15.5 Chemical Inventories:**
- EINECS:** All ingredients listed or exempt.  
**TSCA:** All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.  
**IECSC:** All ingredients listed or exempt.  
**KECL:** All ingredients listed, exempt or notified.  
**HSNO:** All ingredients listed or exempt.  
**PICCS:** Consult your local Dow Corning office.  
**ENCS/ISHL:** Consult your local Dow Corning office.  
**DSL:** Not determined.

**16. OTHER INFORMATION****Contact Point:** Product Safety Specialist - 1300-360-732**Prepared by:** Dow Corning Australia Pty Ltd

This MSDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this MSDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products. If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this Company. Our responsibility for products sold is subject to our standard terms and conditions, a copy of which is sent to our customers and is also available on request.

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