

**DOW CORNING CORPORATION
MATERIAL SAFETY DATA SHEET**

DOW CORNING(R) Z-6040 SILANE

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION	
Dow Corning Corporation South Saginaw Road Midland, Michigan 48686	24 Hour Emergency Telephone: (517) 496-5900 Customer Service: (517) 496-6000 Product Disposal Information: (517) 496-6315 CHEMTREC: (800) 424-9300
MSDS No: 02644444	Current Version: 03/24/97
Generic Description: Alkoxysilane Physical Form: Liquid Color: Colorless to pale yellow Odor: Aromatic odor NFPA Profile: Health 1 Flammability 1 Reactivity 0	
Note: NFPA = National Fire Protection Association	

SECTION 2. OSHA HAZARDOUS COMPONENTS			
<u>CAS Number</u>	<u>Wt%</u>	<u>Component</u>	<u>Exposure Limits</u>
000067561	< 2	Methyl alcohol	OSHA PEL (final rule) and ACGIH TLV-skin: TWA 200 ppm; STEL 250 ppm.
002530838	99	Glycidoxypropyl trimethoxysilane	Dow Corning guide: TWA 5 ppm, STEL 10 ppm. Also see methyl alcohol comments.
Comments: Methyl alcohol forms on contact with water or humid air. Provide adequate ventilation to control exposures within guidelines of OSHA PEL: TWA 200 ppm and ACGIH TLV-skin: TWA 200 ppm, STEL 250 ppm.			

SECTION 3. EFFECTS OF OVEREXPOSURE	
<u>Acute Effects</u>	
Eye:	Direct contact irritates slightly with redness and swelling.
Skin:	A single short exposure (less than 24 hours) may irritate. Repeated prolonged contact (24 to 48 hours) may irritate moderately.
Inhalation:	Product generates methyl alcohol which may cause blindness and damage to nervous system.
Oral:	Product generates methyl alcohol which may cause blindness and possibly death if swallowed.
<u>Repeated Exposure Effects</u>	
Skin:	None Known.
Inhalation:	Product generates methyl alcohol which may cause blindness and damage to nervous system.
Oral:	Product generates methyl alcohol which may cause blindness and possibly death if swallowed.
<u>Special Hazards</u>	
This material contains the following components with the special hazards listed below.	
<u>Carcinogens</u>	

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None Known

Teratogens

None Known

Mutagens

None Known

Reproductive Toxins

None Known

Sensitizers

None Known

Comments: When heated to temperatures above 150 degrees C in the presence of air, product can form formaldehyde vapors. Formaldehyde is a potential cancer hazard, a known skin and respiratory sensitizer; and an irritant to the eyes, nose, throat, skin, and digestive system. Safe handling conditions may be maintained by keeping vapor concentrations within the OSHA Permissible Exposure Limit for formaldehyde.

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.

SECTION 4. FIRST AID MEASURES

Eye: Immediately flush with water for 15 minutes.

Skin: Remove from skin and wash thoroughly with soap and water or waterless cleanser. Get medical attention if irritation or other ill effects develop or persist.

Inhalation: Remove to fresh air. Get medical attention if ill effects persist.

Oral: Get medical attention.

Comments: Treat same as methyl alcohol poisoning.

SECTION 5. FIRE FIGHTING MEASURES

Flash Point (Closed Cup): > 213.98 DEGREE F / 101.10 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 large fires involving chemicals.

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: Silicon dioxide. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Containment/Clean-up: Sections 13 and 15 of this MSDS provide information regarding certain

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federal and state requirements. Clean up remaining materials from spill with suitable absorbant. Clean area as appropriate since some silicone materials, even in small quantities, may present a slip hazard. Final cleaning may require use of steam, solvents or detergents. 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. Observe all personal protection equipment recommendations described in Sections 5 and 8. 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.

NOTE: See Section 8 for Personal Protective Equipment for Spills.
Call Dow Corning Corporation, (517)496-5900, if additional information is required.

SECTION 7. HANDLING AND STORAGE

Handling: Use with adequate ventilation. Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 guidelines or use air-supplied or self-contained breathing apparatus. Avoid breathing vapor. Keep container closed. Avoid eye contact. Do not take internally.

Storage: Keep container closed and store away from water or moisture.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Local exhaust: Recommended
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: Use respiratory protection unless adequate local exhaust ventilation is provided or air sampling data show exposures are within recommended exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls.

Suitable Respirator: Self-contained breathing apparatus (SCBA) or other supplied-air respirator.

Personal Protective Equipment For Spills

Eye: Use full face respirator.

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

Inhalation/
Suitable Respirator: Use self-contained breathing apparatus (SCBA) or other supplied-air respirator.

Precautionary Measures: Avoid eye contact. Avoid breathing vapor. Keep container closed. Do

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not take internally.

Comments: Product evolves methyl alcohol when exposed to water or humid air. Provide ventilation during use to control exposure within Section 2 guidelines or use air-supplied or self-contained breathing apparatus.

Note: These precautions are for room temperature handling. Use at elevated temperature, or aerosol/spray applications, may require added precautions.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical form: Liquid
Color: Colorless to pale yellow
Odor: Aromatic odor
Specific Gravity @ 25C: 1.07
Viscosity: 3.00 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.

SECTION 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, moisture, or humid air can cause hazardous vapors to form as described in Section 2.

Comments: None

SECTION 11. TOXICOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 12. ECOLOGICAL INFORMATION

OPTIONAL SECTION - Complete information not yet available.

SECTION 13. DISPOSAL INFORMATION

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.

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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.

SECTION 15. REGULATORY INFORMATION

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:
000067561 < 2 Methyl alcohol 5000.00 LB RQ

Section 312 Hazard Class:

Acute: Y
Chronic: Y
Fire: N
Pressure: N
Reactive: N

Y = Yes N = No

Section 313 Toxic Chemicals:
000067561 < 2 METHYL ALCOHOL

Supplemental State Compliance Information

<u>CAS Number</u>	<u>Wt%</u>	<u>Component</u>
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California

Warning: This product contains the following chemical(s) listed by the State of California

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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

000067561	<	2	Methyl alcohol
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New Jersey

002530838		99	Glycidoxypropyl trimethoxysilane
000067561	<	2	METHYL ALCOHOL; #1222

Pennsylvania

002530838		99	Glycidoxypropyl trimethoxysilane
000067561	<	2	Methyl alcohol

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

(R) indicates Registered or Trademark

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