

EMS CATALOG NO: 50440-10
EMS PRODUCT: Dow Z-6040 Primer
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MATERIAL SAFETY DATA SHEET

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

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ELECTRON MICROSCOPY SCIENCES

321 MORRIS ROAD

P.O. BOX 251

FORT WASHINGTON, PA 19034

(215) 646-1566

24 HOUR EMERGENCY PHONE NUMBER

CHEMTREC: (800) 424-9300

FOR PRODUCT AND SALES INFORMATION

CONTACT ELECTRON MICROSCOPY SCIENCES OFFICE ABOVE.

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Dow CorningR Z-6040 Silane
SYNONYM: Z-6040 Primer
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

OSHA HAZARDOUS COMPONENTS

CAS NUMBER	WT%	COMPONENT	EXPOSURE LIMITS
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.

EFFECTS OF OVEREXPOSURE

ACUTE EFFECTS:

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.

REPEATED EXPOSURE EFFECTS:

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.

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:

When heated to temperatures above 150oC 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.

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.

FIRE FIGHTING MEASURES

FLASH POINT (CLOSED CUP): >213.98oF / 101.10oC

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 container.

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.

ACCIDENTAL RELEASE MEASURES

CONTAINMENT/CLEAN-UP:

Sections labelled DISPOSAL INFORMATION and REGULATORY INFORMATION of this MSDS provide information regarding certain federal and state requirements. Clean up remaining materials from spill with suitable absorbent. 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 labelled FIRE FIGHTING MEASURES and EXPOSURE CONTROLS/PERSONAL PROTECTION. 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 labelled EXPOSURE CONTROLS/PERSONAL PROTECTION for Personal Protective Equipment for spills.

PERSONAL PROTECTIVE EQUIPMENT FOR SPILLS:

EYE: Use full face respirator.

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

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: Use self-contained breathing (SCBA) or other supplied-air respirator.

PRECAUTIONARY MEASURES: Avoid eye contact: Avoid breathing vapor. Keep container closed. Do 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.

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL FORM: Liquid.
COLOR: Colorless to pale yellow.
ODOR: Aromatic odor.
SPECIFIC GRAVITY @ 25oC: 1.07
VISCOSITY: 3.00 CST
FREEZING/MELTING POINT: Not applicable.
BOILING POINT: Not available.
VAPOR PRESSURE @ 25oC: 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.

STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.
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 labelled OSHA HAZARDOUS COMPONENTS.
COMMENTS: None.

TOXICOLOGICAL INFORMATION

Optional Section - Complete information not yet available.

ECOLOGICAL INFORMATION

Optional Section - Complete information not yet available.

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.

NA = Not applicable.

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: Not applicable
0000 AND NA = Not applicable

REGULATORY INFORMATION

Contents of this MSDS comply with the OSHA Hazard Communication Standard 29 CFR 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:
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

CAS # WT% COMPONENT

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.

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

NEW JERSEY

002530838 99 Glycidoxypropyl trimethoxysilane
000067561 < 2 Methyl Alcohol; #1222

PENNSYLVANIA

002530838 99 Glycidoxypropyl trimethoxysilane
000067561 < 2 Methyl Alcohol