



FORMAT: USA

MATERIAL SAFETY DATA SHEET

PRODUCT: GE281

SILICONE SEALANT

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION  
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MANUFACTURED BY:

SUPPLIED BY:

GE SILICONES

GE SILICONES

260 HUDSON RIVER ROAD

260 HUDSON RIVER ROAD

WATERFORD, NY 12188

WATERFORD, NY 12188

EMERGENCY PHONE (24 HRS)

EMERGENCY PHONE (24 HRS)

(518) 237-3330

(518) 237-3330

REVISED: 01/29/03

PREPARER: JH MERRIFIELD

CHEMICAL FAMILY/USE: SILICONE RUBBER SEALANT

FORMULA: MIXTURE

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2. COMPOSITION/INFORMATION ON INGREDIENTS  
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PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	UNITS
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HAZARDOUS

METHYLTRIMETHOXYSILANE

1185-55-3	1-5	200 (R) NE	200 (R) NE	PPM
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HEXAMETHYLDISILAZANE

999-97-3	1-5	25 (R) NE	35 STEL NE	(R) PPM
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DISTILLATES, PETROLEUM, HYDROTREATED

LIGHT

64742-47-8	5-10	NE	NA	NE	NA	NA
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2. NON-HAZARDOUS

DIMETHYLPOLYSILOXANE

63148-62-9                10-30   NA        NE        NA        NE        NA

TETRAMER TREATED FUMED SILICA

68583-49-3               10-30   10        NE        15        NE        MG/M3

ME-DIMETHOXY/STPD POLYDIME-SILOXANE

68037-58-1               30-60   NE        NE        NE        NE        NA

See Section 15 for description of any WHMIS Trade Secret(s).

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3. HAZARDS IDENTIFICATION  
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1~ EMERGENCY OVERVIEW:

WARNING!

May cause skin, eye, and stomach irritation.

Harmful if swallowed, inhaled, or absorbed through skin.

May cause central nervous system depression.

Refer to other MSDS sections for detailed information.

Ammonia odor

Translucent solid

POTENTIAL HEALTH EFFECTS:

INGESTION:

May cause stomach discomfort.

May be harmful if swallowed.

May cause central nervous system effects.

May cause gastrointestinal irritation, nausea, vomiting, and diarrhea.

Not an expected route of exposure.

SKIN CONTACT:

Uncured product contact will irritate lips, gums and tongue.

Uncured product contact may irritate the skin.

May cause mild skin irritation.

May be absorbed through skin and produce effects as listed

under "Ingestion".

INHALATION:

Causes mild respiratory irritation.

Applies only in uncured state.

May also cause other effects as listed under "Ingestion".

EYE CONTACT:

Uncured product contact irritates eyes.

May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED:

Pre-existing skin or respiratory diseases.

SUBCHRONIC (TARGET ORGAN) EFFECTS:

Central nervous system

Skin

CHRONIC EFFECTS/CARCINOGENICITY:

This product or one of its ingredients present 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

PRODUCTS/INGREDIENTS

This space reserved for special use.

PRINCIPLE ROUTES OF EXPOSURE:

Oral.

Dermal - skin.

Eyes.

Inhalation.

OTHER:

This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 degrees Fahrenheit (150°C) and above, in atmospheres which contain oxygen. Formaldehyde is a skin and respiratory sensitizer, eye and throat irritant, acute toxicant, and potential cancer hazard. An MSDS for formaldehyde is available from GE Silicones.

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4. FIRST AID MEASURES  
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INGESTION:

Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

SKIN:

To clean from skin, remove completely with a dry cloth or paper towel, before washing with detergent and water.

Get medical attention if irritation persists.

INHALATION:

If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

EYES:

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

NOTE TO PHYSICIAN:

None known.

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5. FIRE FIGHTING MEASURES  
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FLASH POINT: NA (C) NA (F)  
METHOD : NA  
IGNITION TEMP : UNKN (C) UNKN (F)  
FLAMMABLE LIMITS IN AIR - LOWER (%): UNKN  
FLAMMABLE LIMITS IN AIR - UPPER (%): UNKN  
SENSITIVITY TO MECHANICAL IMPACT (Y/N): NO  
SENSITIVITY TO STATIC DISCHARGE:  
Sensitivity to static discharge is not expected.  
EXTINGUISHING MEDIA:

All standard firefighting media

SPECIAL FIREFIGHTING PROCEDURES:

Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

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6. ACCIDENTAL RELEASE MEASURES  
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ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

Wipe, scrape or soak up in an inert material and put in a container for disposal.

Wash walking surfaces with detergent and water to reduce slipping hazard.

Wear proper protective equipment as specified in the protective equipment section.

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7. HANDLING AND STORAGE  
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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use.

Avoid contact with skin and eyes.

Remove contact lenses before using sealant. Do not handle lenses until all sealant has been cleaned from the fingertips, nails and cuticles. Residual sealant may remain on fingers for several days and transfer to lenses and cause severe eye irritation.

Use mechanical ventilation to stay below TLV of 25 ppm ammonia.

Store away from heat, sources of ignition, and incompatibles.

Product releases methanol during application and curing.

Keep away from children.

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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ENGINEERING CONTROLS:

Showers.

Eyewash stations.

See "Ventilation" below.

RESPIRATORY PROTECTION:

If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29 CFR 1910.134).

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

Wear eye protection and protective clothing.

VENTILATION:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

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9. PHYSICAL AND CHEMICAL PROPERTIES

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PRODUCT INFORMATION:

BOILING POINT : NA (C) NA (F)  
VAPOR PRESSURE (20 C) (MM HG) : NA  
VAPOR DENSITY (AIR=1) : NA  
FREEZING POINT : NA (C) NA (F)  
MELTING POINT : NA (C) NA (F)  
PHYSICAL STATE : SOLID  
ODOR : AMMONIA  
COLOR : WHITE  
ODOR THRESHOLD (PPM) : 46.8  
% VOLATILE BY VOLUME : NA  
EVAP. RATE (BUTYL ACETATE=1) : <1  
SPECIFIC GRAVITY (WATER=1) : 1.030  
DENSITY (KG/M3) : 1030  
ACID/ALKALINITY (MEQ/G) : UNKN  
PH : NA  
VOC EXCL.H2O & EXEMPTS (G/L) : 27  
SOLUBILITY IN WATER (20 C) : INSOLUBLE  
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT) : PARTIALLY IN TOLUENE

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10. STABILITY AND REACTIVITY  
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STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.

Carbon dioxide.

Silicon dioxide.

Methanol.

Ammonia.

INCOMPATIBILITY (MATERIALS TO AVOID):

None known.

CONDITIONS TO AVOID:

None known.

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11. TOXICOLOGICAL INFORMATION  
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METHYLTRIMETHOXYSilANE

ACUTE ORAL LD50 (MG/KG): 12,500 (RAT)

ACUTE DERMAL LD50 (MG/KG): >10,000 (RBT)

ACUTE INHALATION LC50 (MG/L): NF

OTHER:

None.

AMES TEST:

HEXAMETHYLDISILAZANE

ACUTE ORAL LD50 (MG/KG): 1000 RAT

ACUTE DERMAL LD50 (MG/KG): 540 RBT

ACUTE INHALATION LC50 (MG/L): NONE FOUND

OTHER:

Tested for severe skin irritation and mild eye irritation.

AMES TEST:

DISTILLATES, PETROLEUM, HYDROTREATED

ACUTE ORAL LD50 (MG/KG):

ACUTE DERMAL LD50 (MG/KG):

ACUTE INHALATION LC50 (MG/L):

OTHER:

AMES TEST:

DIMETHYLPOLYSILOXANE

ACUTE ORAL LD50 (MG/KG): 20,000 RAT



ACUTE DERMAL LD50 (MG/KG): NONE  
ACUTE INHALATION LC50 (MG/L): NONE

OTHER:

Tested for acute oral LD50.

AMES TEST:

TETRAMER TREATED FUMED SILICA

ACUTE ORAL LD50 (MG/KG): NA

ACUTE DERMAL LD50 (MG/KG): NA

ACUTE INHALATION LC50 (MG/L): NA

OTHER:

None.

AMES TEST:

ME-DIMETHOXY/STPD POLYDIME-SILOXANE

ACUTE ORAL LD50 (MG/KG): NA

ACUTE DERMAL LD50 (MG/KG): NA

ACUTE INHALATION LC50 (MG/L): NA

OTHER:

None.

AMES TEST:

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12. ECOLOGICAL INFORMATION  
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ECOTOXICOLOGICAL INFORMATION: No data at this time

CHEMICAL FATE INFORMATION: No data at this time

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13. DISPOSAL CONSIDERATIONS  
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DISPOSAL METHOD:

Disposal should be made in accordance with federal, state and local regulations.

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14. TRANSPORT INFORMATION  
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DOT SHIPPING NAME: NONE  
DOT HAZARD CLASS: NOT DOT REGULATED  
DOT LABEL(S): NONE  
UN/NA NUMBER: NONE  
PLACARDS: NONE  
IATA:  
NOT REGULATED BY IATA  
IMO IMDG-code: NOT REGULATED FOR OCEAN TRANSPORTATION  
EMS No: NA  
EUROPEAN CLASS:  
RID (OCTI): NONE  
ADR (ECE): NONE  
RAR (IATA): NONE

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15. REGULATORY INFORMATION  
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SARA SECTION 302:  
None Found  
SARA (311,312) HAZARD CLASS:  
ACUTE HEALTH HAZARD  
NONE

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION: NA

NONE

WHMIS HAZARD CLASS:

D2A VERY TOXIC MATERIALS

D2B TOXIC MATERIALS

1~ WHMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber

3206.49 Silicone Color Concentrate

ECCN: EAR99

EAR99

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 1

FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

NFPA HEALTH = 1, FLAMMABILITY = 0 , REACTIVITY = 0

CALIFORNIA PROPOSITION 65:

NONE

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16. OTHER INFORMATION  
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This product or its components are on the European inventory of existing commercial chemicals (EINECS).....

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These data are offered in good faith as typical values and not as product specifications. No warranty, either expressed or implied, is 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.

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This product or its components are on the Australian inventory  
(ACOIN).....  
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C = ceiling limit	NEGL = negligible
EST= estimated	NF = none found
NA = not applicable	UNKN = unknown
NE = none established	REC = recommended
ND = none determined	V = recomm. By vendor
By-product = reaction by-	SKN = skin
product, TSCA inventory	TS = trade secret
status not required under	R = recommended
40 CFR part 720.30(h-2)	MST = mist
STEL = short term exposure	NT = not tested
limit	

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