

FORMAT: USA	MATERIAL SAFETY DATA SHEET
PRODUCT: GE281	SILICONE SEALANT
1. CHEMICAL PRODUCT AND COMPA	NY IDENTIFICATION

SUPPLIED BY:
GE SILICONES
260 HUDSON RIVER ROAD
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

2. COMPOSITION/INFORMATION ON INGREDIENTS

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PRODUCT COMPOSITION	/ APP	ROX.	ACGIH T	LV	OSHA PE	L
CAS REG NO.	WGT. %	TWA	STEL	TWA	STEL	UNITS
HAZARDOUS						
METHYLTRIMETHOXYSILANE						
1185-55-3	1-5	200(R)	NE	200(R)	NE	PPM
HEXAMETHYLDISILAZANE						
999-97-3	1-5	25(R)	NE	35STEL	NE	(R)PPM
DISTILLATES, PETROLEUM, HYDROTREATED						
LIGHT						
64742-47-8	5-10	NE	NA	NE	NA	NA

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).

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: 1 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

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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.

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.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT INFORMATION:

BOILING POINT	:	NA	(C) N2	A	(F)
VAPOR PRESSURE(20 C)(MM HG	;):	NA			
VAPOR DENSITY (AIR=1)	:	NA			
FREEZING POINT	:	NA	(C) N2	A	(F)
MELTING POINT	:	NA	(C) N2	A	(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			
РН	:	NA			
VOC EXCL.H20 & EXEMPTS(G/L	.):	27			
SOLUBILITY IN WATER (20 C)	:	INSOLUBLE			
SOLUBILITY IN ORGANIC SOLV	ENT (S	STATE SOLVEN	т):	PARTIALL	Y 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. Silicon dioxide. Methanol. Ammonia. INCOMPATIBILITY (MATERIALS TO AVOID): None known.

CONDITIONS TO AVOID:

None known.

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

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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

ECOTOXICOLOGICAL INFORMATION: No data at this time CHEMICAL FATE INFORMATION: No data at this time

13. DISPOSAL CONSIDERATIONS

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

# 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 WHMIS TRADE SECRET: 1 None EXPORT: SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber 3206.49 Silicone Color Concentrate ECCN: EAR99 EAR99 HAZARD RATING SYSTEMS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 1 HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0 HEALTH = 1, FLAMMABILIITY = 0 , REACTIVITY = 0 NFPA CALIFORNIA PROPOSITION 65: NONE

16. OTHER INFORMATION

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

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are appropriate.

This product or its components are on the Australian inventory				
(ACOIN)				
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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