



## GE Silicones

# MATERIAL SAFETY DATA SHEET **SCS1009 12R-CONTRACTORS** SEALANT-Crtrg (0.730 Lbs-0.331 Kg) ALUM

Trade Name **SILICONE SEALANT**

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufactured By** GES Waterford Plant  
260 Hudson Rd  
Waterford, NY 12188

**Revised** **05/29/2003**

**Preparer** PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

**Chemical Family/Use** Sealant

**Formula**

**CHEMTREC** 1-800-424-9300

**HMIS**  
FLAMMABILITY -2 REACTIVITY -0 HEALTH -2

**NFPA**  
FLAMMABILITY -2 REACTIVITY -0 HEALTH -2

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
<b>1. HAZARDOUS</b>		
Methyltriacetoxysilane	4253-34-3	1 - 5 %
Octamethylcyclotetrasiloxane	556-67-2	1 - 5 %
<b>2. NON-HAZARDOUS</b>		
SILOXANES & SILICONES, DIMETHYL-POLYMERS W/ METHYLSILSESQUIOXANES	68554-67-6	5 - 10 %
Treated filler	68611-44-9	5 - 10 %
Dimethylpolysiloxane	70131-67-8	60 - 90 %

### 3. HAZARDS IDENTIFICATION

#### EMERGENCY OVERVIEW



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Irritating to eyes, respiratory system and skin. May be harmful if swallowed. WARNING! Adverse liver and reproductive effects reported in animals.

Solid    Aluminium    Acetic acid

#### **POTENTIAL HEALTH EFFECTS :**

##### **INGESTION :**

May be harmful if swallowed.

##### **SKIN :**

Skin irritation is possible after contact with the uncured product. Uncured product contact will irritate lips, gums and tongue.

##### **INHALATION :**

Cause mild respiratory tract irritation. Applies in uncured state.

##### **EYES :**

Eye irritation on contact with the uncured product.

##### **MEDICAL CONDITIONS AGGRAVATED**

None known.

##### **SUBCHRONIC (TARGET ORGAN) :**

Reproductive hazard. May cause liver effects.

##### **CHRONIC EFFECTS / CARCINOGENICITY :**

This space reserved for special use. 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.

##### **ROUTES OF EXPOSURE :**

dermal    Eyes

##### **OTHER :**

Acetic acid released during curing. Octamethylcyclotetrasiloxane Ingestion: Rodents given large doses via oral gavage of octamethylcyclotetrasiloxane (1600 mg/kg day, 14 days) developed liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appeared normal) as well as hypertrophy (increased cell size). Inhalation: In inhalation studies, laboratory rodents exposed to octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days) developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding



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reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation) with octamethylcyclotetrasiloxane (D4). Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. Interim results from a two generation reproductive study in rats exposed to 500 and 700 ppm D4 (whole body inhalation, 70 days prior to mating through mating, gestation and lactation) resulted in a statistically significant decrease in live mean litter size as well as extended period of off-spring delivery (dystocia). These results were not observed at the 70 and 300 ppm dosing levels. Preliminary results from an ongoing 24-month combined chronic/ongogenicity study in rats exposed to 10,30, 150 or 700 ppm D4 showed test-article related effects in the kidney (male and female) and uterus of rats exposed for 12 to 24 months). These effects include increased kidney weight and severity of chronic nephropathy, increased uterine weight, increased incidence of endometrial cell hyperplasia, and an increased incidence of weight, increased incidence of endometrial cell hyperplasia, and an increased incidence of enometrial adenomas. All of these effects were limited to the 700 ppm exposure group. The relevance of this data to humans is unclear. Further studies are ongoing. In developmental toxicity studies, rats and rabbits were exposed to octamethylcyclotetrasiloxane at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study. 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.

#### **4. FIRST AID MEASURES**

**INGESTION :**

Do not induce vomiting. Slowly dilute with 1-2 glasses of water or milk and seek medical attention. Never give anything by mouth to an unconscious person.

**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.

**NOTES TO PHYSICIAN :**

None known.



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#### **5. FIRE-FIGHTING MEASURES**

**FLASH POINT**

**METHOD**

NA

**IGNITION TEMPERATURE**

Unknown

**FLAMMABLE LIMITS IN AIR - LOWER (%)**

Unknown

**FLAMMABLE LIMITS IN AIR - UPPER (%)**

Unknown

**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 FIRE FIGHTING 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**

**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. Increase area ventilation.

#### **7. HANDLING AND STORAGE**

**STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Use only in well-ventilated areas. Avoid contact with skin and eyes. Keep away from children. 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. Store away from heat, sources of ignition, and incompatibles.

#### **8. EXPOSURE CONTROLS / PERSONAL PROTECTION**



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**ENGINEERING CONTROLS :**

**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 29CFR 1910.134).

**PROTECTIVE GLOVES                      :**

Cloth gloves.

**EYE AND FACE PROTECTION :**

Safety glasses

**OTHER PROTECTIVE EQUIPMENT :**

Wear suitable protective clothing and eye/face protection.

**Exposure Guidelines**

<b><u>Chemical</u></b>	<b><u>CAS REG NO.</u></b>	<b><u>ACGIH</u></b>	<b><u>OSHA</u></b>	<b><u>Supplier</u></b>
Methyltriacetoxysilane	4253-34-3			



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Octamethylcyclotetrasiloxane    556-67-2

**9. PHYSICAL AND CHEMICAL PROPERTIES**

BOILING POINT - C & F	NA
VAPOR PRESSURE (20 C) (MM HG) :	NA
VAPOR DENSITY (AIR=1) :	
FREEZING POINT:	NA
MELTING POINT :	NA
PHYSICAL STATE:	Solid
ODOR :	Acetic acid
COLOR :	Aluminium
EVAPORATION RATE (BUTYL ACETATE=1):	
SPECIFIC GRAVITY (WATER=1) :	1.04
DENSITY (KG/M3) :	1,040.003KG/M3
ACID / ALKALINITY (MEQ/G) :	NA
pH	NA
VOLATILE ORGANIC CONTENT (VOL)	NA
SOLUBILITY IN WATER (20 C) :	Insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT) :	Toluene
VOC EXCL. H2O & EXEMPTS (G/L) :	20.00





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**MUTAGENICITY**  
Unknown

**12. ECOLOGICAL INFORMATION**

**ECOTOXICOLOGY**  
no data available

**CHEMICAL FATE**  
no data available

**DISTRIBUTION**

**13. DISPOSAL CONSIDERATIONS**

**DISPOSAL METHOD :**  
Disposal should be made in accordance with federal, state and local regulations.

**14. TRANSPORT INFORMATION** Not Regulated if Section is Blank

**15. REGULATORY INFORMATION**

**US Regulatory Information**

<b><u>CERCLA</u></b>	<b><u>Chemical</u></b>	<b><u>CERCLA Reportable Quantity</u></b>
<b><u>PRODUCT COMPOSITION</u></b>		

**CLEAN AIR ACT**

**CLEAN WATER ACT**

**SARA SECTION 302 :**



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**SARA (311,312) HAZARD CLASS:**  
No SARA Hazards

**SARA (313) CHEMICALS :**

**Canadian Regulatory Information**

**WHMIS HAZARD CLASS :**

**Other**

**SCHDLE B/HTSUS:**

**ECCN:**

**CALIFORNIA PROPOSITION 65 :**

This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm. This product does not contain any chemicals known to State of California to cause cancer, birth defects or any other harm.

**16. OTHER INFORMATION**

**OTHER :**

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 are appropriate....., This product or its components are on the Australian inventory (ACQIN)....., 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.....