



GE Silicones

**MATERIAL SAFETY DATA SHEET SCS1202 12R-
CONSTRUCTIONSEALANT-Crtrg (0.730 Lbs-0.331 Kg) WHITE**

Trade Name Silicone Sealant (adhesive)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Manufactured By GES Waterford Plant
260 Hudson Rd
Waterford,NY12188**

Revised: 06/18/2003

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

Chemical Family/Use: Sealant

Formula: Mixture

CHEMTREC 1-800-424-9300

HMIS
FLAMMABILITY -0 REACTIVITY -0 HEALTH -1

NFPA
FLAMMABILITY -0 REACTIVITY -0HEALTH -1

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>PRODUCT COMPOSITION</u>	<u>CAS REG NO.</u>	<u>WGT. %</u>
A. HAZARDOUS		
Methyltriacetoxysilane	4253-34-3	1 - 5 %
Octamethylcyclotetrasiloxane	556-67-2	1 - 5 %
B. NON-HAZARDOUS		
SILOXANES & SILICONES, DIMETHYL-POLYMERS W/ METHYLSILSESQUIOXANES	68554-67-6	10 - 30 %
Treated filler	68611-44-9	10 - 30 %
Dimethylpolysiloxane	70131-67-8	60 - 90 %

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:



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

POTENTIAL HEALTH EFFECTS :

INGESTION :

May be harmful if swallowed.

SKIN :

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

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) :

None known.

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.

ROUTES OF EXPOSURE :

Eyesdermal

OTHER :

Acetic acid released during curing.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 :

Rinse mouth with water several times.



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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 :

Move person to fresh air.

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.

5. FIRE-FIGHTING MEASURES

FLASH POINT

METHOD:

not applicable

IGNITION TEMPERATURE

FLAMMABLE LIMITS IN AIR - LOWER (%)

not applicable

FLAMMABLE LIMITS IN AIR - UPPER (%)

not applicable

SENSITIVITY TO MECHANICAL IMPACT:

No

SENSITIVITY TO STATIC DISCHARGE :

Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA :

All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES :

None known.

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.



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7. HANDLING AND STORAGE

STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with skin and eyes. Use only in well-ventilated areas. CAUTION! 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. Product releases acetic acid during application and curing. Use mechanical ventilation to stay below TLV of 10 ppm acetic acid. Eye irritation on contact with the uncured product. Skin irritation is possible after contact with the uncured product.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS :

Eyewash stations Use only in well-ventilated areas.

RESPIRATORY PROTECTION:

Use only in well-ventilated areas. Use approved NIOSH respiratory protection if TLV exceeded or overexposure is likely.

PROTECTIVE GLOVES :

Cloth gloves.

EYE AND FACE PROTECTION :

Safety glasses

OTHER PROTECTIVE EQUIPMENT :

None known.

Exposure Guidelines

<u>Chemical</u>	<u>CAS REG NO.</u>	<u>ACGIH</u>	<u>OSHA</u>	<u>Supplier</u>

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F

VAPOR PRESSURE (20 C) (MM HG) : Unknown

VAPOR DENSITY (AIR=1) :

FREEZING POINT:

MELTING POINT :

PHYSICAL STATE: solid



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ODOR:	Acetic acid
COLOR :	White
EVAPORATION RATE (BUTYL ACETATE=1):	
SPECIFIC GRAVITY (WATER=1) :	ca. 1.06
DENSITY (KG/M3) :	ca. 1,0603KG/M3
ACID / ALKALINITY (MEQ/G) :	
pH	not applicable
VOLATILE ORGANIC CONTENT (VOL)	
SOLUBILITY IN WATER (20 C) :	insoluble
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT) :	Soluble in toluene
VOC EXCL. H2O & EXEMPTS (G/L) :	ca.23

10. STABILITY AND REACTIVITY

STABILITY :
Stable

HAZARDOUS POLYMERIZATION :
Hazardous polymerisation does not occur.

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS :
carbon dioxide (CO2)Carbon monoxideAcetic acidSilicon dioxide.formaldehyde

INCOMPATIBILITY (MATERIALS TO AVOID)
None known.

CONDITIONS TO AVOID :
None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL:
Unknown

ACUTE DERMAL:
Unknown

ACUTE INHALATION:
NONE FOUND



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OTHER:

Octamethylcyclotetrasiloxane Ingestion: Rodents given large doses via oral gavage of octamethylcyclotetrasiloxane (1600 mg/kg day, 14 days) developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear 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 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 periods 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 endometrial adenomas. All of these effects ere limited to the 700 ppm exposure group. The relevance of these 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 tetragenic effects (birth defects) were observed in either study.

SENSITIZATION:

no data available

SKIN IRRITATION

no data available

EYE IRRITATION

no data available

MUTAGENICITY

Unknown

12. ECOLOGICAL INFORMATION



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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

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

CLEAN AIR ACT

CLEAN WATER ACT

SARA SECTION 302 :

SARA (311,312) HAZARD CLASS:
Acute Health Hazard
Chronic Health Hazard



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SARA (313) CHEMICALS :

Canadian Regulatory Information

WHMIS HAZARD CLASS :
D2A VERY TOXIC MATERIALS, D2B TOXIC MATERIALS

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.

16. OTHER INFORMATION

OTHER :

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....., C = ceiling limit NEGL = negligible
EST= estimated NF = none found NA = not applicable UNKN = unknown
NE = none established REC = recommended ND = none determined V = recomb. 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.....