

PRODUCT: RTV108

SILICONE RUBBER SEALANT

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REC'D NOV 12 1999

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURED BY:  
 GE SILICONES  
 260 HUDSON RIVER ROAD  
 WATERFORD, NY 12188

SUPPLIED BY:  
 GE SILICONES  
 260 HUDSON RIVER ROAD  
 WATERFORD, NY 12188

KIT06496  
 X35010212-13-0

EMERGENCY PHONE (24 HRS)  
 (518) 237-3330

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REVISED: 06/10/98  
 PREPARER: CE HANNIGAN  
 CHEMICAL FAMILY/USE: SILICONE RUBBER  
 FORMULA: MIXTURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	OSHA PEL STEL	OSHA PEL TWA	OSHA PEL STEL	UNITS
<b>A. HAZARDOUS</b>						
METHYLTRICETOXYSILANE 4253-34-3	1-5	10 (R)	NE	10 (R)	NE	PPM
OCTAMETHYLCYCLOTETRASILOXANE 556-67-2	1-5	5 PPM	NE	GE REC	NE	GUIDE
<b>B. NON-HAZARDOUS</b>						
POLYDIMETHYLSILOXANE SILANOL/STPD 70131-67-8	60-80	-	NE	-	NE	-
SILANOL/STPD SILOXANE W/ME SILSOXNS 68554-67-6	5-10	NF	NE	NF	NE	NA
TREATED FUMED SILICA 68611-44-9	10-30	10	NE	15	NE	MG/M3

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

Translucent Solid  
 Vinegar odor  
 Avoid contact with eyes.  
 May irritate the skin.  
 Uncured product contact irritates eyes.

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Refer to other MSDS sections for detailed information.

## POTENTIAL HEALTH EFFECTS:

## INGESTION:

May be harmful if swallowed.

## SKIN CONTACT:

Uncured product contact will irritate lips, gums and tongue.

Uncured product contact may irritate the skin.

## INHALATION:

Causes irritation of the mouth, nose, and throat.

Applies only in uncured state.

## EYE CONTACT:

Uncured product contact irritates eyes.

## MEDICAL CONDITIONS AGGRAVATED:

None known.

## SUBCHRONIC (TARGET ORGAN) EFFECTS:

Reproductive disorders.

May cause liver effects.

## 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:

Dermal - skin.

Eyes.

Inhalation.

## 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 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.

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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 statically 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.

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 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.

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#### 4. FIRST AID MEASURES

##### INGESTION:

Rinse mouth with water several times.

##### 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:

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

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## NOTE TO PHYSICIAN:

None known.

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 5. FIRE FIGHTING MEASURES

FLASH POINT:	NA	(C) NA	(F)
METHOD :	NA		
IGNITION TEMP :	UNK	(C) UNK	(F)
FLAMMABLE LIMITS IN AIR - LOWER (%):	UNK		
FLAMMABLE LIMITS IN AIR - UPPER (%):	UNK		
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:

None known.

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 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.

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 7. HANDLING AND STORAGE

## PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Avoid contact with skin and eyes.

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

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acid.

Uncured product contact irritates eyes.

Uncured product contact may irritate skin.

Use in a well ventilated area to prevent irritation by vapors.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:

Eyewash stations.

Use in a well ventilated area.

RESPIRATORY PROTECTION:

Use in a well ventilated area.

Use approved NIOSH respiratory protection if TLV exceeded.....

Or over exposure is likely.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

VENTILATION:

Use only in well ventilated area.

9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT INFORMATION:

BOILING POINT	:	NA	(C)	NA	(F)
VAPOR PRESSURE (20 C) (MM HG)	:	UNK			
VAPOR DENSITY (AIR=1)	:	UNK			
FREEZING POINT	:	NA	(C)	NA	(F)
MELTING POINT	:	NA	(C)	NA	(F)
PHYSICAL STATE	:	SOLID			
ODOR	:	ACETIC ACID			
COLOR	:	TRANSLUCENT			
ODOR THRESHOLD (PPM)	:	UNK			
% VOLATILE BY VOLUME	:	<3.9			
EVAP. RATE (BUTYL ACETATE=1)	:	<1			
SPECIFIC GRAVITY (WATER=1)	:	1.06			
DENSITY (KG/M3)	:	1060			
ACID/ALKALINITY (MEQ/G)	:	UNK			
PH	:	NA			
VOC EXCL. H2O & EXEMPTS (G/L)	:	<41			
SOLUBILITY IN WATER (20 C)	:	INSOLUBLE			
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT)	:	TOLUENE			

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## 10. STABILITY AND REACTIVITY

STABILITY: STABLE  
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR  
HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:  
Carbon monoxide.  
Carbon dioxide.  
Silicon dioxide.  
Acetic acid.  
Formaldehyde.  
INCOMPATIBILITY (MATERIALS TO AVOID):  
None known.  
CONDITIONS TO AVOID:  
None known.

## 11. TOXICOLOGICAL INFORMATION

## METHYLTRIAACETOXYSILANE

ACUTE ORAL LD50 (MG/KG): 2,060 (RAT)  
ACUTE DERMAL LD50 (MG/KG): NONE FOUND  
ACUTE INHALATION LC50 (MG/L): NONE FOUND  
OTHER:  
None.

## AMES TEST:

## OCTAMETHYLCYCLOTETRASILOXANE

ACUTE ORAL LD50 (MG/KG): >64,000 (RAT)  
ACUTE DERMAL LD50 (MG/KG): >16,000 (RBT)  
ACUTE INHALATION LC50 (MG/L): >41MG/L/6HR(RAT)  
OTHER:

Non-irritating to the skin (human).

## AMES TEST:

## POLYDIMETHYLSILOXANE SILANOL/STPD

ACUTE ORAL LD50 (MG/KG): >40000 RAT  
ACUTE DERMAL LD50 (MG/KG): NON-IRRITATING RBT  
ACUTE INHALATION LC50 (MG/L): >535 RAT  
OTHER:

None.

## AMES TEST:

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## SILANOL/STPD SILOXANE W/ME SILSOXNS

ACUTE ORAL LD50 (MG/KG):	>40,000 RAT, ESTM.
ACUTE DERMAL LD50 (MG/KG):	NONE FOUND
ACUTE INHALATION LC50 (MG/L):	>535 MG/L ESTM.
OTHER:	
None.	

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## AMES TEST:

## TREATED FUMED SILICA

ACUTE ORAL LD50 (MG/KG):	>10,000MG/KG (RAT)
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

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13. DISPOSAL CONSIDERATIONS

## DISPOSAL METHOD:

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

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14. TRANSPORT INFORMATION

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:	NA
EMS No:	NA
EUROPEAN CLASS:	
RID (OCTI):	NA
ADR (ECE):	NA
RAR (IATA):	NA

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15. REGULATORY INFORMATION

SARA SECTION 302:

None Found

SARA (311,312) HAZARD CLASS:

ACUTE HEALTH HAZARD  
CHRONIC HEALTH HAZARD

SARA (313) CHEMICALS:

NONE

CPSC CLASSIFICATION:

IRRITANT

WEMIS HAZARD CLASS:

D2A VERY TOXIC MATERIALS  
D2B TOXIC MATERIALS

WEMIS TRADE SECRET:

None

EXPORT:

SCHDLE B/HTSUS: 3910.00 Silicones in Primary Form  
ECCN: EAR99

HAZARD RATING SYSTEMS

HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2  
NFPA FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2

CALIFORNIA PROPOSITION 65:

NONE

16. OTHER INFORMATION

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 a product specification. No warranty, either expressed or implied, is made. The recommended handling procedures are believed to be generally applicable. However, each user should review these recommendations in the specific content of the intended use.

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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

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40 CFR part 720.30(h-2)      MST = mist  
STEL = short term exposure limit      NT = not tested

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\*\*\* END OF MSDS \*\*\*