

REC'D NOV 30 2000



GE Silicones

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FORMAT: USA
PRODUCT: IS808

MATERIAL SAFETY DATA SHEET
SILICONE INDUSTRIAL SEALANT

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

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

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(518) 237-3330

REVISED: 04/14/00
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	TWA	STEL	UNITS
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1. HAZARDOUS

METHYLTRIAACETOXYSILANE 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

2. NON-HAZARDOUS

POLYDIMETHYLSILOXANE SILANOL/STPD 70131-67-8	60-80	-	NE	-	NE	-
SILANOL/STPD SILOXANE W/ME SILSQXNS 68554-67-6	5-10	NF	NE	NF	NE	NA
TREATED FUMED SILICA 68611-44-9	5-10	10	NE	15	NE	MG/M3

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

3. HAZARDS IDENTIFICATION

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EMERGENCY OVERVIEW:

This section not in use

POTENTIAL HEALTH EFFECTS:

1 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.

Inhalation.

OTHER:

Acetic acid released during curing.

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 exami-

nation of the liver cells did not show any evi-

dence 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

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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.

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:

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

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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.

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

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Keep container closed when not in use.
Avoid contact with skin and eyes.
Use only in a well ventilated area.
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.
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:
Exhaust ventilation
Eyewash stations.
Use in a well ventilated area.
RESPIRATORY PROTECTION:

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Use in a well ventilated area.

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.

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)	:	NA		
VAPOR DENSITY (AIR=1)	:	NA		
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	:	<8		
EVAP. RATE (BUTYL ACETATE=1)	:	<1		
SPECIFIC GRAVITY (WATER=1)	:	1.04		
DENSITY (KG/M3)	:	1040		
ACID/ALKALINITY (MEQ/G)	:	NA		
PH	:	NA		
VOC EXCL.H2O & EXEMPTS (G/L)	:	NT		
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

METHYLTRIAACETOXSILANE

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:

OCTAMETHYLCYCLOTETRASIOXANE

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:

POLYDIMETHYLSIOXANE 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:

SILANOL/STPD SIOXANE W/ME SILSQXNS

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.

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:

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: No data at this time

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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.

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: 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

SARA SECTION 302:
None Found
SARA (311,312) HAZARD CLASS:
ACUTE HEALTH HAZARD
CHRONIC HEALTH HAZARD
SARA (313) CHEMICALS:
NONE
CPSC CLASSIFICATION: NA
WHMIS HAZARD CLASS:
D2A VERY TOXIC MATERIALS
D2B TOXIC MATERIALS
WHMIS TRADE SECRET:
None
EXPORT:
SCHDLE B/HTSUS: 3214.10 Mastic Based on Rubber
ECCN: EAR99
HAZARD RATING SYSTEMS
HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2
NFPA FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 2

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 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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|-----------------------|-----------------------|
| 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 |