GE Silicones

FORMAT: USA
PRODUCT: SE6370

MATERIAL SAFETY DATA SHEET
METHYL SILICONE COMPOUND

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

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

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

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

REVISED: 01/19/00
PREPARER: CE BRITTON
CHEMICAL FAMILY/USE: SILICONE RUBBER
FORMULA: MIXTURE

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV TWA	ACGIH TLV STEL	OSHA PEL TWA	OSHA PEL STEL	UNITS
A. HAZARDOUS						
OCTAMETHYLCYCLOTETRASILOXANE						
556-67-2	<1	5 PPM	NE	GE REC	NE	GUIDE
B. NON-HAZARDOUS						
VINYL SILICONE POLYMER						
67762-94-1	1-5	NA	NE	NA	NE	NA
TRADE SECRET COMPONENT						
	1-5	NF	NE	NF	NE	NA
VI/ST DIMETHYL METHYLVINYL SILOXANE						
68083-18-1	30-60	NA	NE	NA	NE	NA
POLYDIMETHYLSILOXANE						
63148-62-9	5-10	NA	NE	NA	NE	NA
TETRAMER TREATED FUMED SILICA						
68583-49-3	30-60	10	NE	15	NE	MG/M3

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

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
This section not in use
POTENTIAL HEALTH EFFECTS:
INGESTION:
May be harmful if swallowed.
SKIN CONTACT:
May cause mild skin irritation.
Plant experience has shown that skin hazard is not applicable in this form.
INHALATION:
None Known.
EYE CONTACT:
None known.
MEDICAL CONDITIONS AGGRAVATED:
None known.
SUBCHRONIC (TARGET ORGAN) EFFECTS:
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.
PRODUCTS/INGREDIENTS
This space reserved for special use.
PRINCIPLE ROUTES OF EXPOSURE:
None known.
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.

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'F) 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:
None known.

INHALATION:
None known.

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

FLASH POINT:		315	(C) 600	(F)
METHOD	:	COC.		
IGNITION TEMP	:	UNKN	(C) UNKN	(F
FLAMMABLE LIMITS IN AIR - LOWER (%):		NA		
FLAMMABLE LIMITS IN AIR - UPPER (%):		NA		
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.
Wear proper protective equipment as specified in the protective equipment section.

HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
During cure, vapors are given off which may be harmful
Cure only where appropriate ventilation systems exist.
Caution!

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS:
Exhaust ventilation
Localized ventilation should be used to control dust levels
RESPIRATORY PROTECTION:
None known.
PROTECTIVE GLOVES:
None known.
EYE AND FACE PROTECTION:
Safety glasses.
OTHER PROTECTIVE EQUIPMENT:
None known.
VENTILATION:
None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

PRODUCT INFORMATION:				
BOILING POINT	:	NA	(C) NA	(F)
VAPOR PRESSURE(20 C)(MM HG)	:	NEGL.		
VAPOR DENSITY (AIR=1)	:	NEGL.		
FREEZING POINT	:	NA	(C) NA	(F)
MELTING POINT	:	NA	(C) NA	(F)
PHYSICAL STATE	:	SOLID		
ODOR	:	ODORLESS		
COLOR	:	TRANSLUCENT		
ODOR THRESHOLD (PPM)	:	UNK		
% VOLATILE BY VOLUME	:	<1		
EVAP. RATE(BUTYL ACETATE=1)	:	<1		
SPECIFIC GRAVITY (WATER=1)	:	1.22		
DENSITY (KG/M3)	:	1222		
ACID/ALKALINITY (MEQ/G)	:	UNKNOWN		
PH	:	NA		
VOC EXCL.H2O & EXEMPTS(G/L)	:	NT		
SOLUBILITY IN WATER (20 C)	:	INSOLUBLE		
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):		UNKNOWN		

10. STABILITY AND REACTIVITY

STABILITY:	STABLE
HAZARDOUS POLYMERIZATION:	WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION/COMBUSTION PRODUCTS:

Carbon monoxide.
Carbon dioxide.
Silicon dioxide.
Formaldehyde.

INCOMPATIBILITY (MATERIALS TO AVOID):

None known.

CONDITIONS TO AVOID:

None known.

TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:	
ACUTE ORAL LD50 (MG/KG):	UNKNOWN
ACUTE DERMAL LD50 (MG/KG):	UNKNOWN
ACUTE INHALATION LC50 (MG/L)	UNKNOWN

OTHER:

None.

AMES TEST:	UNKNOWN

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.

14. TRANSPORT INFORMATION

DOT SHIPPING NAME: NA
DOT HAZARD CLASS: NOT DOT REGULATED
DOT LABEL(S): NA
UN/NA NUMBER: NA
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

15. REGULATORY INFORMATION

SARA SECTION 302:
None Found
1□ SARA (311,312) HAZARD CLASS:
CHRONIC HEALTH HAZARD
SARA (313) CHEMICALS:
NONE
CPSC CLASSIFICATION: NA
WHMIS HAZARD CLASS:
D2A VERY TOXIC MATERIALS
WHMIS TRADE SECRET:
None
EXPORT:
SCHDLE B/HTSUS: 3910.00 Silicones in Primary Form
ECCN: EAR99
HAZARD RATING SYSTEMS
HMIS FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

NFPA FLAMMABILITY 0 , REACTIVITY , HEALTH
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 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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This product or its components are on the Australian inventory (ACOIN).....
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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-product, TSCA inventory status not required under 40 CFR part 720.30(h-2)	SKN	= skin
		TS	= trade secret
		R	= recommended
		MST	= mist
STEL	= short term exposure limit	NT	= not tested

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