



GE Silicones

 COPYRIGHT GENERAL ELECTRIC CO.

FORMAT: USA
 PRODUCT: SE6660

MATERIAL SAFETY DATA SHEET
 PHENYL SILICONE COMPOUND

 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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REVISED: 02/26/99
 PREPARER: CE HANNIGAN
 CHEMICAL FAMILY/USE: SILICONE RUBBER
 FORMULA: MIXTURE

 2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION/ CAS REG NO.	APPROX. WGT. %	ACGIH TLV		OSHA PEL		UNITS
		TWA	STEL	TWA	STEL	
A. HAZARDOUS						
OCTAMETHYLCYCLOTETRASILOXANE						
556-67-2	1.5	5 PPM	NE	GE REC	NE	GUIDE
B. NON-HAZARDOUS						
TETRAMER TREATED FUMED SILICA						
68583-49-3	30-60	10	NE	15	NE	MG/M3
SILANOL/STOPD POLYDIMETHYLSILOXANE						
70131-67-8	1-5	NF	NE	NF	NE	NA
DIPHENYLMETHYLVINYL SILICONE GUM						
68951-95-1	60-80	NA	NE	NA	NE	NA
SILOXANES & SILICONES, DIMETHYL- METHOXY TERMINATED						
68951-97-3	1-5	NE	NE	NE	NE	NA

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

 3. HAZARDS IDENTIFICATION

MARKETED BY
HARWICK STANDARD
DISTRIBUTION CORPORATION
 60 S. Seiberling Street • Akron, Ohio 44305
 Akron • Chicago • Northeast • Southern • West Coast

EMERGENCY OVERVIEW:

This section not in use

POTENTIAL HEALTH EFFECTS:**INGESTION:**

None known

10 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:

May cause mild eye irritation.

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:

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 offspring 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:

None known.

SKIN:

Wash with soap and water.

INHALATION:

None known.

EYES:

In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

NOTE TO PHYSICIAN:

None known.

5. FIRE FIGHTING MEASURES

1

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.

Wash walking surfaces with detergent and water to reduce slipping hazard.

7. 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:

None known.

RESPIRATORY PROTECTION:

None known.

PROTECTIVE GLOVES:

Cloth gloves.

EYE AND FACE PROTECTION:

Safety glasses.

OTHER PROTECTIVE EQUIPMENT:

None known.

VENTILATION:

None known.

9. PHYSICAL AND CHEMICAL PROPERTIES

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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	:	ODORLESS		
COLOR	:	CLEAR		
ODOR THRESHOLD (PPM)	:	UNK		
% VOLATILE BY VOLUME	:	<1		
EVAP. RATE (BUTYL ACETATE=1)	:	<1		
SPECIFIC GRAVITY (WATER=1)	:	1.22		
DENSITY (KG/M3)	:	~1200		
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)	:	PARTIALLY IN TOLUENE		

 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.

 11. TOXICOLOGICAL INFORMATION

PRODUCT INFORMATION:

17 ACUTE ORAL LD50 (MG/KG): NKNOWN

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
 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

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ECCN:
HAZARD RATING SYSTEMS
HMIS
NFPA
CALIFORNIA PROPOSITION 65:
NONE

EAR99

FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0
FLAMMABILITY 0 , REACTIVITY 0 , HEALTH 0

 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- 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

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