1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By
GES Waterford Plant
260 Hudson River Rd
Waterford NY 12188

Revised: 11/06/2003
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
Chemical Family/Use: Silicone siloxane
Formula: Cyclic siloxanes.
CHEMTREC 1-800-424-9300

HMIS
FLAMMABILITY 2  REACTIVITY 0  HEALTH 0

NFPA
FLAMMABILITY 2  REACTIVITY 0  HEALTH 1

2. COMPOSITION/INFORMATION ON INGREDIENTS

PRODUCT COMPOSITION  CAS REG NO.  WGT. %
A. HAZARDOUS
DECAMETHYLCYCLOPENTASIL OXANE  541-02-6  > 90 %

B. NON-HAZARDOUS

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CAUTION! Combustible liquid and vapor. May cause irritation of skin and eyes. Adverse liver effects reported in animals. Attention: Not for injection into humans. May generate formaldehyde at temperatures greater than 150 C(300 F). See Section 3 of MSDS for details.

Liquid Clear None

POTENTIAL HEALTH EFFECTS:

INGESTION:
GE Silicones

MATERIAL SAFETY DATA SHEET
SB32 55G-Drum(420.0LBS-190.5KG)

<table>
<thead>
<tr>
<th>Trade Name</th>
<th>Cyclopentasiloxane</th>
</tr>
</thead>
</table>

Not an anticipated route of exposure.

SKIN:
May cause mild skin irritation.

INHALATION:
None known.

EYES:
May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED
None known.

SUBCHRONIC (TARGET ORGAN):
Liver

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:
None known.

OTHER:
Attention: Not for injection into humans. 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. Additional information on the toxicological effects of this material or its ingredients can be found in Section 11 - Toxicological Information.

4. FIRST AID MEASURES

INGESTION:
Do not induce vomiting. If victim is conscious, give 1-3 glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention if irritation persists.

SKIN:
Wash with soap and water. Get medical attention if irritation or symptoms from Section 3 develop.
INHALATION:
If inhaled, remove to fresh air. If not breathing give artificial respiration using a barrier device. If breathing is difficult give oxygen. Get medical attention.

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
76.60 °C 170.60 °F

METHOD:
PMCC

IGNITION TEMPERATURE
Unknown

FLAMMABLE LIMITS IN AIR - LOWER (%)
Unknown

FLAMMABLE LIMITS IN AIR - UPPER (%)
Unknown

SENSITIVITY TO MECHANICAL IMPACT:
No

SENSITIVITY TO STATIC DISCHARGE:
Sensitivity to static discharge is expected; material has a flash point below 200 F.

EXTINGUISHING MEDIA:
All standard firefighting media

SPECIAL FIRE FIGHTING PROCEDURES:
Combustible, Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

7. HANDLING AND STORAGE
MATERIAL SAFETY DATA SHEET

SB32 55G-Drum(420.0LBS-190.5KG)

Trade Name  Cyclopentasiloxane

STORAGE
Store away from heat, sources of ignition, and incompatibles. Keep container tightly closed.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
Avoid contact with skin and eyes. Avoid inhalation of vapors or mists. Keep away from children. Use ground strap and appropriate precautions for dispensing flammable liquids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS:
Showers Eyewash stations Exhaust ventilation

RESPIRATORY PROTECTION:
If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

PROTECTIVE GLOVES:
Rubber or plastics gloves

EYE AND FACE PROTECTION:
safety glasses with side-shields

OTHER PROTECTIVE EQUIPMENT:
Wear suitable protective clothing and eye/face protection.

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS REG NO.</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>Supplier</th>
</tr>
</thead>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT - C & F: 210.00 °C  410 °F
VAPOR PRESSURE (20 C) (MM HG): 3 MM HG
VAPOR DENSITY (Air=1): no data available
FREEZING POINT: Unknown
MELTING POINT: Unknown
PHYSICAL STATE: Liquid
ODOR: None
COLOR: Clear
GE Silicones

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Trade Name  Cyclopentasiloxane

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EVAPORATION RATE (BUTYL ACETATE=1)</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (WATER=1)</td>
<td>0.95</td>
</tr>
<tr>
<td>DENSITY (KG/M3)</td>
<td>958.60 KG/M3</td>
</tr>
<tr>
<td>ACID / ALKALINITY (MEQ/G)</td>
<td>&lt;3 PPM A</td>
</tr>
<tr>
<td>pH</td>
<td>NA</td>
</tr>
<tr>
<td>VOLATILE ORGANIC CONTENT (VOL)</td>
<td>100.00 %(m)</td>
</tr>
<tr>
<td>SOLUBILITY IN WATER (20 C)</td>
<td>Insoluble</td>
</tr>
<tr>
<td>SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT)</td>
<td>Soluble in toluene</td>
</tr>
<tr>
<td>VOC EXCL. H2O &amp; EXEMPTS (G/L)</td>
<td>0.00</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

STABILITY : Stable

HAZARDOUS POLYMERIZATION : WILL NOT OCCUR

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS : carbon dioxide (CO2)formaldehydeCarbon monoxideSilicon dioxide.

INCOMPATIBILITY (MATERIALS TO AVOID) None known.

CONDITIONS TO AVOID : Keep away from heat and sources of ignition.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL:  >20,000 mg/kg (rat)

ACUTE DERMAL: >10 ml/kg(Rat)

ACUTE INHALATION: LC50 rat 8.67 mg/l (rat)

OTHER: Decamethylcyclopentasiloxane Rodents repeatedly exposed to decamethylcyclopentasiloxane (D5)
via inhalation or ingestion developed increased liver weights relative to unexposed control animals. When the exposure was stopped, livers returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. Liver enlargement was due to an increase in metabolizing enzymes, and a temporary increase in the number and size of normal cells (hyperplasia and hypertrophy). These biochemical pathways are more sensitive in rodents than in humans. Inhalation exposures that are typical in industrial use (5-10 ppm) showed no toxic effects in rodents. A two-year combined chronic toxicity and carcinogenicity inhalation study was conducted with decamethylcyclopentasiloxane (D5) in Fisher-344 rats by whole body inhalation. A statistically significant increase in the trend for uterine endometrial tumors was observed in female rats exposed for 24 months at the highest dose level of 160 ppm. The same effects were not seen at the other dose levels of 10 and 40 ppm. No adverse effects were seen at male rats at any level. Whether or not this increase in incidence is truly related to the exposure to D5 is questionable and yet to be determined. Based on our present knowledge, it is unlikely that industrial, commercial, or consumer uses of products containing D5 would result in a significant risk to humans. The GE Recommended Exposure Guideline for D5 is 10 ppm.

SENSITIZATION:
Magnusson-Kligmann guinea pigs  negative

SKIN IRRITATION
rabbit  No skin irritation

EYE IRRITATION
rabbit  No eye irritation

MUTAGENICITY
Salmonella/Microsome-test: No indication of mutagenic effects.

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY
This product is a small, lipophilic, low molecular weight volatile compound. Due to its high volatility, product has a short half-life in the aquatic compartment, and is unlikely to be found in the terrestrial compartment. As a low molecular weight lipophilic compound it has the potential to bioaccumulate.

CHEMICAL FATE
no data available

DISTRIBUTION
no data available
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

DOT SHIPPING NAME: Combustible liquid, n.o.s.
DECAMETHYLCYCLOPENTASILOXANE,

DOT HAZARD CLASS: C

DOT LABEL (S): 

UN/NA NUMBER: NA 1993

PACKING GROUP: III

15. REGULATORY INFORMATION

US Regulatory Information

CERCLA
PRODUCT COMPOSITION: Chemical

CLEAN AIR ACT

CLEAN WATER ACT

SARA SECTION 302:

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

SARA (313) CHEMICALS :

Canadian Regulatory Information

WHMIS HAZARD CLASS :
Combustible Liquid, D2B  TOXIC MATERIALS

OTHER :

SCHEDULE 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 :
This product or its components are on the European inventory of existing commercial chemicals (EINECS),.............................................................................................................., 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................................................................., This product or its components are on the Australian inventory (ACOIN), 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................................................................., All chemical substances in this material are included on or exempted from listing on the TSCA inventory.