1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

Revised: 08/10/2006
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS
CHEMTREC 1-800-424-9300

Chemical Family/Use: Sealant
Formula: Mixture

HMIS
Flammability: 1 Reactivity: 0 Health: 1

NFPA
Flammability: 1 Reactivity: 0 Health: 1

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>PRODUCT COMPOSITION</th>
<th>CAS REG NO.</th>
<th>WGT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyltriacetoxysilane</td>
<td>4253-34-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Octamethylycyclotetrasiloxane</td>
<td>556-67-2</td>
<td>&lt; 1 %</td>
</tr>
<tr>
<td>B. NON-HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dimethylpolysiloxane</td>
<td>70131-67-8</td>
<td>60 - 90 %</td>
</tr>
<tr>
<td>Treated Silica</td>
<td>68937-51-9</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Siloxanes &amp; Silicones, Dimethylpolymers w/Methylsilsesquioxanes</td>
<td>68554-67-6</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Red iron oxide</td>
<td>1332-37-2</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING! May be harmful if swallowed. Attention: Not for injection into humans. May cause irritation of skin and eyes.
Form: solid Color: red Odor: Acetic acid
POTENTIAL HEALTH EFFECTS

INGESTION
May be harmful if swallowed.

SKIN
May cause skin irritation.

INHALATION
Causes mild respiratory tract irritation. Applies in uncured state.

EYES
May cause eye irritation.

MEDICAL CONDITIONS AGGRAVATED
None known.

SUBCHRONIC (TARGET ORGAN)
None known.

CHRONIC EFFECTS / CARCINOGENICITY
This product or one of its ingredients present at 0.1% or more is NOT listed as a carcinogen or suspected carcinogen by NTP, IARC, or OSHA.

ROUTES OF EXPOSURE
Eyes; dermal

OTHER
Acetic acid released during curing. This product contains methylpolysiloxanes which can generate formaldehyde at approximately 300 F (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 Advanced Materials - Silicones. Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.

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
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
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
Treatment is symptomatic and supportive.

5. FIRE-FIGHTING MEASURES

FLASH POINT:
METHOD: not applicable
IGNITION TEMPERATURE: not applicable
FLAMMABLE LIMITS IN AIR - LOWER (%): not applicable
FLAMMABLE LIMITS IN AIR - UPPER (%): not applicable
SENSITIVITY TO MECHANICAL IMPACT: No
SENSITIVITY TO STATIC DISCHARGE
Sensitivity to static discharge is not expected.

EXTINGUISHING MEDIA
All standard extinguishing agents are suitable.

SPECIAL FIRE FIGHTING PROCEDURES
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
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.

7. HANDLING AND STORAGE

STORAGE
Store away from heat, sources of ignition, and incompatibles. Keep containers tightly closed in a dry, cool and well-ventilated place.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Avoid contact with skin and eyes. Use only in well-ventilated areas. 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. Keep away from children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS
Eyewash stations; Showers; 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 29 CFR 1910.134).

PROTECTIVE GLOVES
Rubber gloves

EYE AND FACE PROTECTION
Safety glasses

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

Exposure Guidelines

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS RN</th>
<th>Source</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Absence of values indicates none found</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average


9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>BOILING POINT - C &amp; F:</td>
<td>not applicable</td>
</tr>
<tr>
<td>VAPOR PRESSURE (20 C) (MM HG):</td>
<td>Unknown</td>
</tr>
<tr>
<td>VAPOR DENSITY (AIR=1):</td>
<td>no data available</td>
</tr>
<tr>
<td>FREEZING POINT:</td>
<td>not applicable</td>
</tr>
<tr>
<td>MELTING POINT:</td>
<td>solid</td>
</tr>
<tr>
<td>PHYSICAL STATE:</td>
<td></td>
</tr>
<tr>
<td>ODOR:</td>
<td>Acetic acid</td>
</tr>
<tr>
<td>COLOR:</td>
<td>red</td>
</tr>
<tr>
<td>EVAPORATION RATE (BUTYL ACETATE=1):</td>
<td>&lt; 1</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (WATER=1):</td>
<td>ca. 1.10</td>
</tr>
<tr>
<td>DENSITY:</td>
<td>ca. 1,100 g/cm³</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

STABILITY
Stable

HAZARDOUS POLYMERIZATION
Will not occur

HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS
Carbon dioxide (CO2); Carbon monoxide; Acetic acid; Silicon dioxide.; formaldehyde

INCOMPATIBILITY (MATERIALS TO AVOID)
None known.

CONDITIONS TO AVOID
None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL
Remarks: NONE FOUND

ACUTE DERMAL
Remarks: NONE FOUND

ACUTE INHALATION
Remarks: NONE FOUND

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 appear 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 statistically 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. Preliminary results from an ongoing 24-month combined chronic/oncogenicity study in rats exposed to 10, 30, 150, or 700 ppm D4 showed test-article related effects in the kidney (male and female) and uterus of rats exposed for 12 to 24 months. These effects include increased kidney weight and severity of chronic nephropathy, increased uterine weight, increased incidence of endometrial cell hyperplasia, and an increased incidence of endometrial adenomas. All of these effects are limited to the 700 ppm exposure group. 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.

SENSITIZATION
no data available

SKIN IRRITATION
no data available

EYE IRRITATION
no data available

MUTAGENICITY
Unknown

12. ECOLOGICAL INFORMATION

ECOTOXICOLOGY
no data available

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

Further Information: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. REGULATORY INFORMATION

**Inventories**

- Canada DSL Inventory  y (positive listing)
- Korea Existing Chemicals Inventory (KECI)  y (positive listing)
- China Inventory of Existing Chemical Substances  y (positive listing)
- Australia Inventory of Chemical Substances (AICS)  y (positive listing)
- Philippines Inventory of Chemicals and Chemical Substances (PICCS)  y (positive listing)
- EU list of existing chemical substances  y (positive listing)
- Canada NDSL Inventory  n (Negative listing)
- TSCA list  y (positive listing)
- Japan Inventory of Existing & New Chemical Substances (ENCS)  n (Negative listing)

For inventories that are marked as quantity restricted or special cases, please contact GE.

**US Regulatory Information**

<table>
<thead>
<tr>
<th>CERCLA</th>
<th>PRODUCT COMPOSITION</th>
<th>Chemical</th>
<th>CERCLA Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>CLEAN AIR ACT</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>CLEAN WATER ACT</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SARA SECTION 302</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SARA (311,312) HAZARD CLASS</td>
<td>Acute Health Hazard</td>
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</tr>
<tr>
<td></td>
<td>SARA (313) CHEMICALS</td>
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</tr>
</tbody>
</table>
Canadian Regulatory Information

WHMIS HAZARD CLASS

D2A  VERY TOXIC MATERIALS

Other

SCHEDLE B/HTSUS: 3214.10 Mastic Based on Rubber

ECCN: EAR99

CALIFORNIA PROPOSITION 65

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

16. OTHER INFORMATION

OTHER

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.

C = ceiling limit  NEGL = negligible  EST = estimated  NF = none found
NA = not applicable  UNKN = unknown  NE = none established  REC = recommended  ND = none determined
V = recommended by vendor  SKN = skin  TS = trade secret  R = recommended
MST = mist  NT = not tested  STEL = short term exposure limit  ppm = parts per million  ppb = parts per billion
By-product = reaction by-product  TSCA inventory status not required under 40 CFR part 720.30(h-2).