1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Momentive performance material
260 Hudson River Rd
Waterford NY 12188

Revised: 07/14/2010
Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS CHEMTREC
1-800-424-9300

Chemical Family/Use: Sealant
Formula: Mixture

HMIS
Flammability: 0  Reactivity: 0  Health: 1

NFPA
Flammability: 0  Reactivity: 0  Health: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING! Irritating to eyes, respiratory system and skin. May be harmful if swallowed. Adverse liver and reproductive effects reported in animals. May cause adverse reproductive effects.

Form: solid  Color: translucent  Odor: Trace Ammonia

POTENTIAL HEALTH EFFECTS

INGESTION
May be harmful if swallowed. May cause stomach discomfort. Not an anticipated route of exposure.

SKIN
Skin irritation is possible after contact with the uncured product. Uncured product contact will irritate lips, gums and tongue. May cause mild skin irritation.

INHALATION
None known. Causes mild respiratory tract irritation. Applies in uncured state.

EYES
Eye irritation on contact with the uncured product. May cause mild eye irritation.

MEDICAL CONDITIONS AGGRAVATED
None known.

SUBCHRONIC (TARGET ORGAN)
None known.; Reproductive hazard; May cause liver effects.
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
dermal; Eyes

3. 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>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Hexamethyldisilazane</td>
<td>999-97-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Methyltrimethoxysilane</td>
<td>1185-55-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>B. NON-HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methoxypolydimethylsiloxane</td>
<td>68037-58-1</td>
<td>60 - 100 %</td>
</tr>
<tr>
<td>Treated Filler</td>
<td>68611-44-9</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Polydimethylsiloxane</td>
<td>63148-62-9</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Treated Fumed Silica</td>
<td>68583-49-3</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Siloxanes &amp; Silicones, Dimethylpolymers w/Methylsilsesquioxanes</td>
<td>68554-67-6</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

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. If skin irritation persists, call a physician.

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: 110.00 °C; 230 °F
METHOD: PENSKY-MARTENS
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. 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
Product releases ammonia during application and curing. Product releases methanol during application and curing. Avoid contact with skin and eyes. Keep container closed when not in use. Keep away from children.

STORAGE
Store away from heat, sources of ignition, and incompatibles. Keep container tightly closed.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS
Eyewash stations; Showers; Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

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 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>Octamethyldicyclopentasiloxane</td>
<td>556-67-2</td>
<td>Z_INTL_OELREL</td>
<td>5 ppm</td>
</tr>
</tbody>
</table>

Absence of values indicates none found

PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average; INTL REL - Internal Recommended Exposure Limit


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>&lt; 1</td>
</tr>
<tr>
<td>FREEZING POINT</td>
<td>not applicable</td>
</tr>
<tr>
<td>PHYSICAL STATE</td>
<td>solid</td>
</tr>
<tr>
<td>ODOR</td>
<td>Trace Ammonia</td>
</tr>
<tr>
<td>COLOR</td>
<td>translucent</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY (WATER=1)</td>
<td>ca. 1.03</td>
</tr>
<tr>
<td>DENSITY</td>
<td>ca. 1.035 g/cm3</td>
</tr>
<tr>
<td>ACID / ALKALINITY (MEQ/G)</td>
<td>not applicable</td>
</tr>
<tr>
<td>pH</td>
<td>not applicable</td>
</tr>
</tbody>
</table>
SOLUBILITY IN WATER (20 C): negligible
SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT): Toluene
VOLATILE ORGANIC CONTENT: 2.8 %(m)
VOC EXCL. H2O & EXEMPTS (G/L): 33 g/l

10. STABILITY AND REACTIVITY

STABILITY
Stable

HAZARDOUS POLYMERIZATION
Hazardous polymerisation does not occur.

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

INCOMPATIBILITY (MATERIALS TO AVOID)
None known.

CONDITIONS TO AVOID
None known.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL
Remarks: Unknown

ACUTE DERMAL
Remarks: Unknown

ACUTE INHALATION
Remarks: no data available

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, liverweights 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. These results have been shown to be rat-specific. 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. Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

SENSITIZATION
no data available

SKIN IRRITATION
Prolonged contact may cause irritation.

EYE IRRITATION
Contact with eyes may cause irritation.

MUTAGENICITY
Unknown

OTHER EFFECTS OF OVEREXPOSURE
Methanol released during curing., Ammonia released during curing., Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.

12. ECOLOGICAL INFORMATION

ECOTOXICITY
no data available

DISTRIBUTION
no data available

CHEMICAL FATE
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

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

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

US Regulatory Information

SARA (311,312) HAZARD CLASS
Acute Health Hazard; Chronic Health Hazard

SARA (313) CHEMICALS

CALIFORNIA PROPOSITION 65
WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
108-88-3, Toluene.
Canadian Regulatory Information

WHMIS HAZARD CLASS
   D2A - Very Toxic Material Causing Other Toxic Effects
   D2B - Toxic Material Causing Other Toxic Effects

16. OTHER INFORMATION

OTHER

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
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).
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.