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: 2 Reactivity: 0 Health: 2

NFPA
Flammability: 2 Reactivity: 0 Health: 2

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING! Irritating to eyes, respiratory system and skin. May be harmful if swallowed.

Form: paste  Color: white  Odor: sweet

POTENTIAL HEALTH EFFECTS

INGESTION
May be harmful if swallowed.

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

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

EYES
Eye irritation on contact with the uncured product.

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**
Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.

### 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><strong>A. HAZARDOUS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Methyltrimethoxysilane</td>
<td>1185-55-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>0.1 - 1 %</td>
</tr>
<tr>
<td>Methyltrimethoxysilane</td>
<td>1185-55-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Tris(3(trimethoxysilyl)propyl)isocyanurate</td>
<td>26115-70-8</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>1,3 PROPAÑEDIOXYTITANIUM-BIS-Octamethylcyclotetrasiloxane</td>
<td>36497-11-7</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>0.1 - 1 %</td>
</tr>
<tr>
<td>Polydimethylsiloxane</td>
<td>63148-62-9</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Dimethylpolysiloxane</td>
<td>70131-67-8</td>
<td>10 - 30 %</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Methyltrimethoxysilane</td>
<td>1185-55-3</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Tris(3(trimethoxysilyl)propyl)isocyanurate</td>
<td>26115-70-8</td>
<td>1 - 5 %</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>B. NON-HAZARDOUS</strong></th>
<th>CAS REG NO.</th>
<th>WGT. %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylpolysiloxane</td>
<td>70131-67-8</td>
<td>60 - 100 %</td>
</tr>
<tr>
<td>Treated Silica</td>
<td>68937-51-9</td>
<td>5 - 10 %</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
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
Move to fresh air. If symptoms persist, call a physician.

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: ca. 75 °C; 167 °F
METHOD: closed cup
IGNITION TEMPERATURE: no data available
FLAMMABLE LIMITS IN AIR - LOWER (%): no data available
FLAMMABLE LIMITS IN AIR - UPPER (%): no data available
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 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 intended for flammable materials for disposal. Wear proper protective equipment as specified in the protective equipment section. Increase area ventilation. Wash walking surfaces with detergent and water to reduce slipping hazard.
7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Keep container closed when not in use. Avoid contact with skin and eyes. CAUTION! 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 methanol during application and curing. Store away from heat, sources of ignition, and incompatibles. Keep away from children.

STORAGE
Keep containers tightly closed in a dry, cool and well-ventilated place.

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 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>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>Z_INTL_OELREL</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>ACGIH, TWA</td>
<td>10 mg/m3</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>OSHA Z1, PEL</td>
<td>Total dust. 15 mg/m3</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><strong>BOILING POINT - C &amp; F:</strong></td>
<td>&gt;93 °C; 199 °F</td>
</tr>
<tr>
<td><strong>VAPOR PRESSURE (20 C) (MM HG):</strong></td>
<td>Unknown</td>
</tr>
<tr>
<td><strong>VAPOR DENSITY (AIR=1):</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>FREEZING POINT:</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>PHYSICAL STATE:</strong></td>
<td>paste</td>
</tr>
<tr>
<td><strong>ODOR:</strong></td>
<td>sweet</td>
</tr>
<tr>
<td><strong>COLOR:</strong></td>
<td>white</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE (BUTYL ACETATE=1):</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>SPECIFIC GRAVITY (WATER=1):</strong></td>
<td>1.04</td>
</tr>
<tr>
<td><strong>DENSITY:</strong></td>
<td>not applicable</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER (20 C):</strong></td>
<td>insoluble</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):</strong></td>
<td>Soluble in toluene</td>
</tr>
<tr>
<td><strong>VOLATILE ORGANIC CONTENT:</strong></td>
<td>3.8 %(m)</td>
</tr>
<tr>
<td><strong>VOC EXCL. H2O &amp; EXEMPTS (G/L):</strong></td>
<td>40 g/l</td>
</tr>
</tbody>
</table>

### 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; 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 sensitiser, eye and throat irritant, acute toxicant, and potential cancer hazard. A MSDS for formaldehyde is available fromMomentive.

**INCOMPATIBILITY (MATERIALS TO AVOID)**
- None known.

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

### 11. TOXICOLOGICAL INFORMATION

**ACUTE ORAL**
- Remarks: Unknown
RTV160
POLYDIMETHYLSILOXANE SEALANT

ACUTE DERMAL
Remarks: Unknown

ACUTE INHALATION
Remarks: no data available

OTHER
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. 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.

SENSITIZATION
no data available

SKIN IRRITATION
no data available

EYE IRRITATION
no data available

MUTAGENICITY
Unknown

OTHER EFFECTS OF OVEREXPOSURE
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. A MSDS
for formaldehyde is available from Momentive., Methanol released during curing.

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

DOT SHIPPING NAME: Combustible liquid, n.o.s.
DOT HAZARD CLASS: CBL
DOT LABEL (S): NON
UN/NA NUMBER: NA 1993
PACKING GROUP: III

Further Information: This product is Combustible as defined by the US Department of Transport (DOT). It is regulated for transport in the US in container > 119 gallons. The product is not regulated for transport by the IATA, ADR/RID, ADNR or the IMDG regulations.

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) y (positive listing)
China Inventory of Existing y (positive listing)
RTV160
POLYDIMSETHYLSILOXANE SEALANT

Chemical Substances
Korea Existing Chemicals  y (positive listing)
Inventory (KECI)
Canada DSL Inventory  y (positive listing)
Canada NDSL Inventory  n (Negative listing)
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
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; Fire Hazard

SARA (313) CHEMICALS

CALIFORNIA PROPOSITION 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

CALIFORNIA PROPOSITION 65
This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Canadian Regulatory Information

WHMIS HAZARD CLASS
B3 - Combustible Liquid
D2A - Very 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
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)., 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.