1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Manufactured By: Momentive Performance Materials

Ohta-shi 3738505

Revised: 08/22/2007

Preparer: PRODUCT STEWARDSHIP COMPLIANCE AND STANDARDS

CHEMTREC 1-800-424-9300

Chemical Family/Use: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

Formula: Mixture of polydimethylsiloxanes, fillers and cross-linkers.

HMIS
Flammability: 1 Reactivity: 0 Health: 2

NFPA
Flammability: 0 Reactivity: 0 Health: 1

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
CAUTION! May cause skin irritation. Causes eye irritation. May cause irritation of the respiratory tract. May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 10 of MSDS for details. May cause adverse reproductive effects. Adverse reproductive effects reported in animals.

Form: Liquid
Color: White
Odor: faint distinctive odour

POTENTIAL HEALTH EFFECTS

INGESTION
Little harmful to health if swallowed.

SKIN
May cause skin irritation.

INHALATION
Little hazard to respiratory tract if inhaled.

EYES
Causes irritation.

MEDICAL CONDITIONS AGGRAVATED
None known.

SUBCHRONIC (TARGET ORGAN)
None known.

CHRONIC EFFECTS / CARCINOGENICITY
No data available
ROUTES OF EXPOSURE
None known.

OTHER
Wear eye, hand and respiratory protection when in handling. Ground equipment due expected sensitivity to static discharge.

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>gamma-Aminopropyltriethoxysilane</td>
<td>919-30-2</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>methyl tris-(methyl ethyl ketoximo)silane</td>
<td>22984-54-9</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>B. NON-HAZARDOUS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>1 - 5 %</td>
</tr>
<tr>
<td>Silica</td>
<td>7631-86-9</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td>Dimethylpolysiloxane</td>
<td>70131-67-8</td>
<td>60 - 90 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

INGESTION
Induce vomiting immediately and call a physician.

SKIN
Wash off with soap and plenty of water. Get medical attention if symptoms occur.

INHALATION
If inhaled, move victim to fresh air and seek 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
No information available.
5. FIRE-FIGHTING MEASURES

FLASH POINT: 156 °C; 313 °F
IGNITION TEMPERATURE: 450 °C; 842 °F
FLAMMABLE LIMITS IN AIR - UPPER (%): No data available

SENSITIVITY TO STATIC DISCHARGE
Avoid any source of ignition due to flammability. Use immediately after seal is opened. Be careful that moisture vapor doesn't mix in this product, because this is cured by hydrolysis with moisture in air. This product releases Methyl Ethyl Ketoxime during curing. Use in a well ventilated area to avoid breathing vapor.

EXTINGUISHING MEDIA
foam, powder, carbon dioxide

Further Information
Remove sources of combustibles. Extinguish the fire using fire-fighting media listed above. Cool containers / tanks with water spray. The fire fighting should be done from the windward side, with suitable respiratory protective device, if necessary.

6. ACCIDENTAL RELEASE MEASURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED
Put in an empty container for recovery after preventing spill by sand or sandbags, if the amount of spill is large. Put in an empty container for recovery after wiping or soaking up in an inert material, if the amount of spill is small.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
Use personal protective equipment. Keep people away from the area. Work from the windward side.

STORAGE
Store in a dark, cool place indoors, with container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS
Well ventilated area; Eyewash stations

RESPIRATORY PROTECTION
Gas mask for organic gas. 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**
Rubber boots and 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>
<tr>
<td>PEL - OSHA Permissible Exposure Limit; TLV - ACGIH Threshold Limit Value; TWA - Time Weighted Average</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT - C & F:** Not applied
**VAPOR PRESSURE (20 C) (MM HG):** Not applied
**VAPOR DENSITY (AIR=1):** No data available
**FREEZING POINT:** Not applied
**MELTING POINT:** Not applied
**PHYSICAL STATE:** Liquid
**ODOR:** faint distinctive odour
**COLOR:** White
**EVAPORATION RATE (BUTYL ACETATE=1):** Unknown
**SPECIFIC GRAVITY (WATER=1):** 1.03
**DENSITY:** 1,030 g/cm3
**ACID / ALKALINITY (MEQ/G):** No data available
**VOLATILE ORGANIC CONTENT (VOL):** No data available
**SOLUBILITY IN WATER (20 C):** Insoluble
**SOLUBILITY IN ORGANIC SOLVENT (STATE SOLVENT):** Insoluble in water

### 10. STABILITY AND REACTIVITY

**HAZARDOUS POLYMERIZATION**
Will not occur
HAZARDOUS THERMAL DECOMPOSITION / COMBUSTION PRODUCTS
Reacts with water/moisture liberating Methylethylketoxime (MEKO) = 2-Butanone-oxime.; May generate formaldehyde at temperatures greater than 150 C (300 F). See Section 10 of MSDS for details.

INCOMPATIBILITY (MATERIALS TO AVOID)
The catalysis of strong acids or bases cause polymerization or decomposition.

CONDITIONS TO AVOID
Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

ACUTE ORAL
Remarks: No data available

ACUTE DERMAL
Remarks: No data available

OTHER
Toxicity of methyl ethyl ketoxime (MEKO) liberated when the material is in touch with water or moisture in the air, or the material is curing. SKIN CONTACT: May cause mild skin irritation. EYE CONTACT: Causes severe eye irritation may damage tissue. ACUTE ORAL TOXICITY: LD50 = 4ml/kg (rat). ACUTE INHALATION: 4-hr LC50 = > 4.8mg/l (rat). INHALATION TOXICITY: Narcotic in high concentration. Return to normal when exposure ends. Prolonged overexposure causes adverse effects on the blood. SKIN SENSIBILITY: Positive (guinea pig. No allergic reaction to humans. NERVE TOXICITY: Temporary decline in motor function at high concentrations. CARCINOGENICITY: A lifetime (about two years) inhalation study in male and female mice and rats revealed that liver tumors were observed in male mice and rats at a high exposure level of 375 ppm. OTHER LONG-TERM EXPOSURE TESTS: Atrophy of smell epithelium cells was observed in mice and rats. PERMISSIBLE CONCENTRATION: TWA 3 ppm (supplier's recommended value), Keep well ventilated (STEL 10 ppm or less). The WEEL recommended value of AIHA is TWA 10 ppm., Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

SENSITIZATION
No data available

SKIN IRRITATION
No data available

EYE IRRITATION
No data available

MUTAGENICITY
No data available
12. ECOLOGICAL INFORMATION

ECOTOXICITY

Ecotoxicological data for this product is not available.

DISTRIBUTION
No data available

CHEMICAL FATE
No data available

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD
Incineration should be made in approved chemical incinerator in accordance with regulations. Or bury after cured 15cm pieces are made. Silica particulates are formed on incineration.

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. 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

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Listing Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada NDSL Inventory</td>
<td>n (Negative listing)</td>
</tr>
<tr>
<td>Canada DSL Inventory</td>
<td>y (Positive listing)</td>
</tr>
<tr>
<td>Japan Inventory of Existing &amp; New Chemical Substances (ENCS)</td>
<td>y (Positive listing)</td>
</tr>
<tr>
<td>Korea Existing Chemicals Inventory (KECI)</td>
<td>y (Positive listing)</td>
</tr>
<tr>
<td>China Inventory of Existing Chemical Substances</td>
<td>y (Positive listing)</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>y (Positive listing)</td>
</tr>
</tbody>
</table>
Philippines Inventory of Chemicals and Chemical Substances (PICCS)
TSCA list q (quantity restricted) Listed on TSCA
EU list of existing chemical substances y (Positive listing)
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

SARA (313) CHEMICALS

Canadian Regulatory Information

WHMIS HAZARD CLASS
D2A VERY TOXIC MATERIALS

Other

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
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.
Wear eye, hand and respiratory protection when in handling. Ground equipment due expected sensitivity to static discharge.