1. Identification

Product identifier: SSG4607B

Other means of identification
Synonyms: Silicone Rubber Compound – Part B

Recommended use and restriction on use
Recommended use: Industrial use
Restrictions on use: Not known.

Manufacturer/Importer/Distributor Information
Momtive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person: commercial.services@momentive.com

Telephone
General information
+1-800-295-2392

Emergency telephone number
Supplier: CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards
- Skin Corrosion/Irritation Category 2
- Serious Eye Damage/Eye Irritation Category 1
- Skin sensitizer Category 1
- Toxic to reproduction Category 1B

Unknown toxicity - Health
- Acute toxicity, oral 0 %
- Acute toxicity, dermal 0 %
- Acute toxicity, inhalation, vapor 0 %
- Acute toxicity, inhalation, dust or mist 0 %

Label Elements

Hazard Symbol:
### Signal Word:
Danger

### Hazard Statement:
- H315: Causes skin irritation.
- H318: Causes serious eye damage.
- H317: May cause an allergic skin reaction.
- H360: May damage fertility or the unborn child.

### Precautionary Statements

**Prevention:**
Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

**Response:**
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.

**Storage:**
Store locked up.

**Disposal:**
Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

### Other hazards which do not result in GHS classification:
None.

### Substance(s) formed under the conditions of use:
Reacts with water liberating small amounts of methanol.

### 3. Composition/information on ingredients
## Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gamma-aminopropyltrimethoxysilane</td>
<td>13822-56-5</td>
<td>10 - &lt;20%</td>
<td>No data available.</td>
</tr>
<tr>
<td>3-glycidyl-oxypropyltrimethoxy-silane</td>
<td>2530-83-8</td>
<td>5 - &lt;10%</td>
<td>No data available.</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE</td>
<td>13463-67-7</td>
<td>1 - &lt;5%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>(1) Carbon Black</td>
<td>1333-86-4</td>
<td>0.1 - &lt;1%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>(1) Silica</td>
<td>7631-86-9</td>
<td>0.1 - &lt;1%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>77-58-7</td>
<td>0.1 - &lt;0.3%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>Octamethylocyclotetrasiloxane</td>
<td>556-67-2</td>
<td>0.1 - &lt;1%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
<tr>
<td>Aluminium hydroxide</td>
<td>21645-51-2</td>
<td>0.1 - &lt;1%</td>
<td># This substance has workplace exposure limit(s).</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

### 4. First-aid measures

**Ingestion:** If swallowed, do NOT induce vomiting. Give a glass of water.

**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.

**Skin Contact:** In case of contact, immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

**Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Most important symptoms/effects, acute and delayed

**Symptoms:** No data available.

**Hazards:** No data available.

Indication of immediate medical attention and special treatment needed

**Treatment:** Product may hydrolyze upon contact with body fluids in the gastrointestinal tract to produce additional methanol. The potential for toxic effects due to methanol formation (eye damage and blindness, metabolic acidosis, dizziness and drowsiness, fetal toxicity, and liver, kidney, and heart muscle damage) should be recognized.

5. Fire-fighting measures

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other involved materials. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** All standard extinguishing agents are suitable.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** Reacts with water liberating small amounts of methanol. In case of fire, carbon monoxide and carbon dioxide may be formed. Acute overexposure to the products of combustion may result in irritation of the respiratory tract. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**Special protective equipment and precautions for firefighters**

**Special fire fighting procedures:** Move container from fire area if it can be done without risk. Cool fire-endangered containers with water.

**Special protective equipment for fire-fighters:** Corrosive Material Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures
Personal precautions, protective equipment and emergency procedures:
Use only in well-ventilated areas. Avoid contact with skin and eyes. Product releases methanol during application and curing.

Methods and material for containment and cleaning up:
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. Warn other workers of spill. Keep unauthorized personnel away.

7. Handling and storage
Precautions for safe handling:
Sensitivity to static discharge is not expected. Do not get in eyes, on skin, on clothing. Do not taste or swallow. Methanol is formed during processing. See Section 8 of the SDS for Personal Protective Equipment. Use only in well-ventilated areas.

Conditions for safe storage, including any incompatibilities:
Keep container tightly closed in a cool, well-ventilated place. Use original container or packaging of similar material of construction

8. Exposure controls/personal protection
Control Parameters

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>(1) TITANIUM DIOXIDE</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Total dust.</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Particulate.</td>
<td>ST ESL</td>
<td>50 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>5 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Total dust.</td>
<td>TWA PEL</td>
<td>10 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Respirable fraction.</td>
<td>TWA PEL</td>
<td>5 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>15 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Total dust.</td>
<td>TWA</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Respirable fraction.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE - Total dust.</td>
<td>TWA</td>
<td>50 millions of particles per</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Substance</td>
<td>Type</td>
<td>Value</td>
<td>Source</td>
</tr>
<tr>
<td>-----------</td>
<td>------</td>
<td>-------</td>
<td>--------</td>
</tr>
<tr>
<td>(1) Titanium Dioxide</td>
<td>IDLH</td>
<td>5,000 mg/m³</td>
<td>US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)</td>
</tr>
<tr>
<td>(1) Carbon Black - Inhalable fraction.</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td>(1) Carbon Black</td>
<td>REL</td>
<td>0.1 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>3.5 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>3.5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td>(1) Carbon Black - Inhalable fraction.</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td>(1) Carbon Black</td>
<td>REL</td>
<td>3.5 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td>(1) Carbon Black - as PAHs</td>
<td>REL</td>
<td>0.1 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2016)</td>
</tr>
<tr>
<td>(1) Carbon Black</td>
<td>PEL</td>
<td>3.5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>3.5 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)</td>
</tr>
<tr>
<td>(1) Carbon Black - Particulate.</td>
<td>AN ESL</td>
<td>3.5 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>35 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>(1) Carbon Black</td>
<td>TWA PEL</td>
<td>3.5 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td></td>
<td>IDLH</td>
<td>1,750 mg/m³</td>
<td>US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)</td>
</tr>
<tr>
<td>(1) Silica</td>
<td>REL</td>
<td>6 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>6 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>6 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)</td>
</tr>
<tr>
<td>(1) Silica - Particulate.</td>
<td>ST ESL</td>
<td>27 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>2 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>(1) Silica</td>
<td>TWA</td>
<td>20 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.8 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)</td>
</tr>
<tr>
<td></td>
<td>IDLH</td>
<td>3,000 mg/m³</td>
<td>US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate - as Sn</td>
<td>STEL</td>
<td>0.2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>0.1 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)</td>
</tr>
<tr>
<td>Substance</td>
<td>Measurement Type</td>
<td>Limit</td>
<td>Source</td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------------</td>
<td>------------------------------</td>
<td>----------------------------------------------------------------------</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>PEL</td>
<td>0.1 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate - Particulate.</td>
<td>AN ESL</td>
<td>0.1 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td></td>
<td>ST ESL</td>
<td>1 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate - as Sn</td>
<td>TWA PEL</td>
<td>0.1 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>0.2 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>IDLH</td>
<td>25 mg/m³</td>
<td>US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended (10 2017)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Respirable fraction.</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Total dust.</td>
<td>TWA</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Respirable fraction.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Total dust.</td>
<td>TWA</td>
<td>15 mg/m³</td>
<td>US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended (06 2008)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Particulate.</td>
<td>ST ESL</td>
<td>50 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Respirable fraction.</td>
<td>AN ESL</td>
<td>5 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Total dust.</td>
<td>TWA PEL</td>
<td>5 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Respirable fraction.</td>
<td>TWA PEL</td>
<td>10 mg/m³</td>
<td>US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended (01 2015)</td>
</tr>
<tr>
<td>Aluminium hydroxide - Total dust.</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Aluminum hydroxide - Total dust.</td>
<td>TWA</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016)</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>TWA</td>
<td>5 ppm</td>
<td>US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended (2014)</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane - Vapor.</td>
<td>ST ESL</td>
<td>1,000 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td></td>
<td>AN ESL</td>
<td>100 µg/m³</td>
<td>US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended (11 2016)</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>TWA</td>
<td>10 ppm</td>
<td>US. OARS. WEELs Workplace Environmental Exposure Level Guide, as amended (2014)</td>
</tr>
</tbody>
</table>
This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

**Appropriate Engineering Controls**

Use only in well-ventilated areas.

**Individual protection measures, such as personal protective equipment**

**General information:**
Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

**Eye/face protection:**
Safety glasses with side shields Monogoggles Wear face shield if there is risk of splashes.

**Skin Protection**

**Hand Protection:**
Rubber or plastics gloves

**Other:**
Wear rubber apron. Wear suitable protective clothing and eye/face protection.

**Respiratory Protection:**
Use only in well-ventilated areas. 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).

**Hygiene measures:**
Avoid contact with eyes, skin, and clothing. Wash hands after handling. When using do not eat or drink.

### 9. Physical and chemical properties

**Appearance**

- **Physical state:** solid
- **Form:** Paste
- **Color:** Gray
- **Odor:** amine like
- **Odor threshold:** No data available.
- **pH:** Not applicable
- **Melting point/freezing point:** Not applicable
- **Initial boiling point and boiling range:** > 200 °C
- **Flash Point:** 88 °C
- **Evaporation rate:** < 1
- **Flammability (solid, gas):** No data available.

**Upper/lower limit on flammability or explosive limits**

SDS_US
**10. Stability and reactivity**

**Reactivity:**
No dangerous reaction if used as recommended.

**Chemical Stability:**
Material is stable under normal conditions.

**Possibility of hazardous reactions:**
No data available.

**Conditions to avoid:**
Keep away from moisture. Reacts with water liberating small amounts of methanol.

**Incompatible Materials:**
Avoid contact with acids and oxidizing substances. Reacts with water liberating small amounts of methanol.

**Hazardous Decomposition Products:**
Carbon dioxide Silicon dioxide. Ammonia. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

**11. Toxicological information**

**Information on likely routes of exposure**

**Ingestion:**
No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics
Ingestion: No data available.
Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral
Product: Not classified for acute toxicity based on available data.

Specified substance(s):
(1) TITANIUM DIOXIDE LD 50 (Rat): > 10,000 mg/kg
(1) Silica LD 50 (Rat): > 15,000 mg/kg
Dibutyltin Dilaurate LD 50 (Rat, male and female): 2,071 mg/kg
Octamethylcyclotetrasiloxane LD 50 (Rat): > 4,800 mg/kg

Dermal
Product: Not classified for acute toxicity based on available data.

Specified substance(s):
(1) TITANIUM DIOXIDE LD 50 (Rabbit): > 10,000 mg/kg
Dibutyltin Dilaurate LD 50 (Rat, ): > 2,000 mg/kg
Octamethylcyclotetrasiloxane LD 50 (Rat): > 2,375 mg/kg

Inhalation
Product: Not classified for acute toxicity based on available data.
Specified substance(s):
3-glycidyl-oxypropyl-trimethoxy-silane LC50: > 5.3 mg/l

(1) TITANIUM DIOXIDE LC50 (Rat): > 6.8 mg/l

Dibutyltin Dilaurate LC50 (Rat, ): 10 mg/l

Octamethylcyclotetrasiloxane LC50 (Rat): 36 mg/l

Repeated dose toxicity
Product: No data available.

Specified substance(s):
3-glycidyl-oxypropyl-trimethoxy-silane NOAEL: 500 mg/kg
NOAEL: 225 mg/m³

Skin Corrosion/Irritation
Product: Irritating to skin.

Serious Eye Damage/Eye Irritation
Product: Causes eye irritation.

Respiratory or Skin Sensitization
Product: No data available.

Carcinogenicity
Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:
No carcinogenic components identified
Germ Cell Mutagenicity

**In vitro**

**Product:** No data available.

**Specified substance(s):**

**Specified substance(s):**
Octamethylocyclotetrasiloxane Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella typhimurium, Reverse Mutation Assay)): negative (not mutagenic) Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

**In vivo**

**Product:** No data available.

**Specified substance(s):**
3-glycidyl-oxypropyl-trimethoxy-silane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)): positive Comet Assay (OECD 489): No clear conclusions about germ cell mutagenicity was reached based on the results from this study.

**Specified substance(s):**
Octamethylocyclotetrasiloxane Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology: Micronucleus Test)) Inhalation (Rat, male and female): negative

Reproductive toxicity

**Product:** No data available.

Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

Aspiration Hazard

**Product:** No data available.
Other effects: Ammonia released during curing. Contains dibutyl tin dilaurate which may cause birth defects and reproductive effects based on animal data. Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses via oral gavage of Octamethylcyclotetrasiloxane (1600mg/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. This response in rats, which does not affect the animal’s health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. 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 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. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level—a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish Product: No data available.

Specified substance(s):
- 3-glycidyl-oxypropyltrimethoxy-silane LC50 (Fish, 96 h): 55 mg/l
- (1) TITANIUM DIOXIDE LC0 (Leuciscus idus, 48 h): > 1,000 mg/l
(1) Silica LC0 (Brachydanio rerio, 96 h): 5,000 mg/l

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
3-glycidyl-oxypropyl-
trimethoxy-silane EC 50 (Daphnia, 48 h): 324 mg/l

Dibutyltin Dilaurate EC50 (Daphnia magna, 48 h): < 0.463 mg/l Fresh water

Chronic hazards to the aquatic environment:

Fish
Product: No data available.

Specified substance(s):
(1) Silica LC0 (Brachydanio rerio, 4 d): 5,000 mg/l

Aquatic Invertebrates
Product: No data available.

Specified substance(s):
3-glycidyl-oxypropyl-
trimethoxy-silane NOEC (Daphnia, 21 d): > 100 mg/l

Toxicity to Aquatic Plants
Product: No data available.

Specified substance(s):
3-glycidyl-oxypropyl-
trimethoxy-silane NOEC (Algae, 7 d): 119 mg/l

Persistence and Degradability

Biodegradation
Product: No data available.

Specified substance(s):
3-glycidyl-oxypropyl-
trimethoxy-silane The product is not readily biodegradable.

(1) TITANIUM DIOXIDE 0 %

Dibutyltin Dilaurate 23 % (39 d) The product is not readily biodegradable.

Octamethylcyclotetrasiloxane 3.7 % (29 d, 310 Ready Biodegradability - CO₂ in Sealed Vessels (Headspace Test)) Not readily biodegradable.

BOD/COD Ratio
Product: No data available.
Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane
Fathead Minnow, Bioconcentration Factor (BCF): 12.40

Partition Coefficient n-octanol / water (log Kow)
Product: Log Kow: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments
Gamma-
Aminopropyltrimethoxysilane
3-glycidyl-oxypropyl-
trimethoxy-silane
(1) TITANIUM DIOXIDE
(1) Carbon Black
(1) Silica
Dibutyltin Dilaurate
Octamethylcyclotetrasiloxane
Aluminium hydroxide
No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

Disposal instructions: Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

DOT
Not regulated.

IMDG
Not regulated.
IATA
Not regulated.

**Special precautions for user:**
This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

### 15. Regulatory information

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**
None present or none present in regulated quantities.

**CERCLA Hazardous Substance List (40 CFR 302.4):**
None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**
Skin Corrosion or Irritation
Serious eye damage or eye irritation
Respiratory or Skin Sensitization
Toxic to reproduction

**SARA 302 Extremely Hazardous Substance**
None present or none present in regulated quantities.

**SARA 304 Emergency Release Notification**
None present or none present in regulated quantities.

**SARA 311/312 Hazardous Chemical**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Threshold Planning Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gamma-Aminopropyltrimethoxysilane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>3-glycidyl-oxypropyltrimethoxy-silane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>(1) TITANIUM DIOXIDE</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>(1) Carbon Black</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>(1) Silica</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Dibutyltin Dilaurate</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>10000 lbs</td>
</tr>
<tr>
<td>Aluminium hydroxide</td>
<td>10000 lbs</td>
</tr>
</tbody>
</table>

**SARA 313 (TRI Reporting)**
None present or none present in regulated quantities.
Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):
None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65
WARNING: This product can expose you to chemicals including Methanol, Toluene, which is [are] known to the State of California to cause birth defects or other reproductive harm.
For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Polydimethylsiloxane
Gamma-Aminopropyltrimethoxysilane
Treated Fumed Silica
Methyltrimethoxysilane
3-glycidyl-oxypropyl-trimethoxy-silane
Dibutyltin Dilaurate
Octamethylcyclotetrasiloxane
(1) TITANIUM DIOXIDE

US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
(1) TITANIUM DIOXIDE

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.
Inventory Status:

<table>
<thead>
<tr>
<th>Location</th>
<th>Status</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AiCS:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>Canada DSL Inventory List:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>EINECS, ELINCS or NLP:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>Japan (ENCS) List:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>China Inv. Existing Chemical Substances:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>Korea Existing Chemicals Inv. (KECI):</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>Canada NDSL Inventory:</td>
<td>Not in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>Philippines PICCS:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>US TSCA Inventory:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>New Zealand Inventory of Chemicals:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
<tr>
<td>Taiwan Chemical Substance Inventory:</td>
<td>On or in compliance</td>
<td>None.</td>
</tr>
</tbody>
</table>

16. Other information, including date of preparation or last revision

HMIS Hazard ID

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 04/06/2020
Revision Date: No data available.
Version #: 5.1
Further Information: Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.
Disclaimer:

**Notice to reader**

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (>30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Contains octamethylcyclotetrasiloxane which may cause reproductive effects based on animal data.
Keep out of the reach of children.

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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