SAFETY DATA SHEET

1. Identification

Product identifier: Cast-a-Mold 25T Base

Recommended use and restriction on use

Recommended use: Molding diverse objects.
Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Supplier

Company Name: Specialty Resin & Chemical
Address: 58100 Park Place
          Dowagiac, Mi. 49047 USA
Telephone: +1 269-462-9256
Fax: +1 269-462-9256
Email: dan@specialtyresin.com

Emergency telephone number: Poison Hotline: 1-800-222-1222

2. Hazard(s) identification

Hazard Classification

Health Hazards

Toxic to reproduction Category 2

Label Elements

Hazard Symbol:

Signal Word: Warning

Hazard Statement: Suspected of damaging fertility.

Titanium Dioxide:
When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

Precautionary
Statements

Prevention: Use personal protective equipment as required.

Response: IF exposed or concerned: Get medical advice/attention.

Other hazards which do not result in GHS classification: No data available.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Octamethylcyclotetrasiloxane</td>
<td>556-67-2</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>

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

Composition Comments: Mixture of Polyorganosiloxanes, fillers, additives.

4. First-aid measures

General information: For further information refer to section 8 "Exposure-controls/personal protection”.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation: Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact: Wash contact areas with soap and water. Get medical attention if symptoms occur after washing.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazards: No specific recommendations.

Indication of immediate medical attention and special treatment needed

Treatment: No specific recommendations.

5. Fire-fighting measures

General Fire Hazards: No specific recommendations.
Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:**  
Extinguish with foam, carbon dioxide or dry powder.

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

**Specific hazards arising from the chemical:**  
Product will burn under fire conditions. Hazardous Decomposition Products: formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

**Special fire fighting procedures:**  
Water spray should be used to cool containers.

**Special protective equipment for fire-fighters:**  
Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**  
Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:**  
Absorb with sand or other inert absorbent and place into containers.

**Notification Procedures:**  
Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

**Environmental Precautions:**  
Do not allow to enter drains, sewers or watercourses.

### 7. Handling and storage

**Precautions for safe handling:**  
No specific precautions.

**Conditions for safe storage, including any incompatibilities:**  
Store in tightly closed original container in a dry, cool and well-ventilated place.

### 8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**  
Titanium Dioxide: When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

**Appropriate Engineering Controls**  
No specific recommendations.
Individual protection measures, such as personal protective equipment

- **General information:** Provide sufficient ventilation during operations which cause vapor formation.
- **Eye/face protection:** Safety Glasses.
- **Skin Protection**
  - **Hand Protection:** Protective gloves are recommended.
- **Other:** No specific precautions.
- **Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation.
- **Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

- **Appearance**
  - Physical state: Liquid
  - Form: Viscous
  - Color: White
- **Odor:** Slight odor
- **Odor threshold:** No data available.
- **pH:** Not applicable
- **Freezing point:** No data available.
- **Boiling Point:** > 500 °F (260 °C)
- **Flash Point:** > 302 °F (150 °C) (Pensky-Martens Closed Cup)
- **Evaporation rate:** No data available.
- **Flammability (solid, gas):** No data available.
  - Flammability limit - upper (%): No data available.
  - Flammability limit - lower (%): No data available.
- **Vapor pressure:** No data available.
- **Vapor density:** No data available.
- **Density:** Approximate 1.11 kg/dm³ (68 °F (20 °C))
- **Solubility(ies)**
  - Solubility in water: Insoluble in water
  - Solubility (other): Acetone: Very slightly soluble.
  - Ethanol: Very slightly soluble.
  - Diethylether: Miscible (in all proportions).
  - Aliphatic hydrocarbons: Miscible (in all proportions).
  - Aromatic hydrocarbons: Miscible (in all proportions).
  - Chlorinated solvents: Miscible (in all proportions).
- **Partition coefficient (n-octanol/water):** No data available.
- **Auto-ignition temperature:** No data available.
- **Decomposition temperature:** No data available.
- **Viscosity:** 35,000 - 45,000 mm²/s
10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Stable
Possibility of hazardous reactions: Will not occur.
Conditions to avoid: No other information noted.
Incompatible Materials: Strong oxidizing agents.
Hazardous Decomposition Products: This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

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: No data available.

Dermal
Product: No data available.

Inhalation
Product: No data available.

Repeated dose toxicity
Product: No data available.

Skin Corrosion/Irritation Product: No data available.

Serious Eye Damage/Eye Irritation Product: No data available.

Respiratory or Skin Sensitization Product: No data available.

Carcinogenicity Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide

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

No carcinogenic components identified

Germ Cell Mutagenicity

In vitro Product: No data available.

In vivo Product: No data available.

Reproductive toxicity Product: No data available.

Specified substance(s):
Octamethylcyclotetrasiloxane Suspected of damaging fertility.

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: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:
Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Chronic hazards to the aquatic environment:
Fish
Product: No data available.

Aquatic Invertebrates
Product: No data available.

Toxicity to Aquatic Plants
Product: No data available.

Persistence and Degradability
Biodegradation
Product: The product is not readily biodegradable.

BOD/COD Ratio
Product: No data available.

Bioaccumulative potential
Bioconcentration Factor (BCF)
Product: The product is not bioaccumulating.

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

Mobility in soil: No data available.
Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Contaminated packages should be as empty as possible.

14. Transport information

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: No special precautions.

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

- [ ] Acute (Immediate)
- [X] Chronic (Delayed)
- [ ] Fire
- [ ] Reactive
- [ ] Pressure Generating

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 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**
  No ingredient regulated by CA Prop 65 present.

- **US. New Jersey Worker and Community Right-to-Know Act**
  No ingredient regulated by NJ Right-to-Know Law present.

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

- **US. Pennsylvania RTK - Hazardous Substances**
  No ingredient regulated by PA Right-to-Know Law present.

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

- **US TSCA Inventory:** On or in compliance with the inventory.
- **Canada DSL Inventory List:** On or in compliance with the inventory.
- **Australia AICS:** On or in compliance with the inventory.
- **China Inv. Existing Chemical Substances:** On or in compliance with the inventory.
- **Korea Existing Chemicals Inv. (KECI):** On or in compliance with the inventory.
- **Philippines PICCS:** On or in compliance with the inventory.
- **New Zealand Inventory of Chemicals:** On or in compliance with the inventory.

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>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>*</td>
<td>1</td>
<td>0</td>
<td>B</td>
</tr>
</tbody>
</table>

- **HMIS Health Rating:** 1 - Slight
- **HMIS Flammability Rating:** 1
- **Physical Hazards Rating:** 0
- **Personal Protection:** B - Safety Glasses & Gloves

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

**NFPA Hazard ID**

- **Flammability Rating:** 1
- **Health Rating:** 0
- **Reactivity Rating:** 1
- **Special Hazard:**

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

**Issue Date:** 06/27/2018
**Revision Date:** No data
**Version #:** available. 7.0
**Further Information:** No data available.

**SDS_US**

**Disclaimer:** The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.
SAFETY DATA SHEET

1. Identification

Product identifier: CAST-A-MOLD 25T ACTIVATOR

Recommended use and restriction on use
Recommended use: Catalyst
Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Supplier
Company Name: Specialty Resin & Chemical
Address: 58100 Park Place
Dowagiac, Mi. 49047
Telephone: +1 (269) 462-9256
Fax: +1 (269) 462-9256
Contact Person: Dan Wilson
E-mail: dan@specialtyresin.com

Emergency telephone number: Poison Hotline 1-800-222-1222

2. Hazard(s) identification

Hazard Classification

Health Hazards
- Acute toxicity (Oral) Category 4
- Toxic to reproduction Category 2
- Specific Target Organ Toxicity - Repeated Exposure Category 2

Label Elements

Hazard Symbol: 

Signal Word: Warning

Hazard Statement: Harmful if swallowed. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.
Precautionary Statements

Prevention: Use personal protective equipment as required.

Response: IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention.

Other hazards which do not result in GHS classification: No data available.

Substance(s) formed under the conditions of use:

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS-No.</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>67-56-1</td>
<td>&lt;13%</td>
</tr>
</tbody>
</table>

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

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>CAS number</th>
<th>Content in percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, (trimethoxysilyl)-</td>
<td>2996-92-1</td>
<td>20 - 30%</td>
</tr>
<tr>
<td>Dimethylbis[(1-oxoneodecyloxy)stannane]</td>
<td>68928-76-7</td>
<td>1 - 5%</td>
</tr>
</tbody>
</table>

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

Composition Comments: Mixture of Polyorganosiloxanes, fillers, additives.

4. First-aid measures

General information: For further information refer to section 8 “Exposure-controls/personal protection”.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation: Move into fresh air and keep at rest. Get medical attention if symptoms occur.

Skin Contact: Wash skin thoroughly with soap and water. Get medical attention if symptoms occur after washing.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Hazard: No specific recommendations.

Indication of immediate medical attention and special treatment needed
### 5. Fire-fighting measures

**General Fire Hazards:**
No specific recommendations.

**Suitable (and unsuitable) extinguishing media**

| Suitable extinguishing media: | Dry chemical, alcohol resistant foam or carbon dioxide (CO2). |
| Unsuitable extinguishing media: | Do not use water jet as an extinguisher, as this will spread the fire. |

**Specific hazards arising from the chemical:**
Product will burn under fire conditions. Hazardous Decomposition Products: formaldehyde, oxides of carbon and silica.

**Special protective equipment and precautions for firefighters**

| Special fire fighting procedures: | Water spray should be used to cool containers. |
| Special protective equipment for fire-fighters: | Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA). |

### 6. Accidental release measures

**Personal precautions, protective equipment and emergency procedures:**
Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:**
Absorb with sand or other inert absorbent and place into containers.

**Notification Procedures:**
Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

**Environmental Precautions:**
Do not allow to enter drains, sewers or watercourses.

### 7. Handling and storage

**Precautions for safe handling:**
See Section 8 of the SDS for Personal Protective Equipment. For further information, refer to Section 10: "Stability and Reactivity".

**Conditions for safe storage, including any incompatibilities:**
Store in tightly closed original container in a dry, cool and well-ventilated place.

### 8. Exposure controls/personal protection

**Control Parameters**

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimethylbis[1-</td>
<td>TWA</td>
<td>0.1 mg/m3</td>
<td>US. ACGIH Threshold Limit Values (01 2010)</td>
</tr>
</tbody>
</table>
### oxoneodecyl)oxy]stannane - as Sn

<table>
<thead>
<tr>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>STEL 0.2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (01 2010)</td>
</tr>
<tr>
<td>PEL 0.1 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>TWA 0.1 mg/m³</td>
<td>US. OSHA Table Z-1 (29 CFR 1910.1000) (1989)</td>
</tr>
</tbody>
</table>

### Additional exposure limits under the conditions of use

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>STEL</td>
<td>250 ppm</td>
<td>US. ACGIH Threshold Limit Values (01 2010)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm</td>
<td>US. ACGIH Threshold Limit Values (01 2010)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>250 ppm 325 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>REL</td>
<td>200 ppm 260 mg/m³</td>
<td>US. NIOSH: Pocket Guide to Chemical Hazards (2005)</td>
</tr>
<tr>
<td></td>
<td>PEL</td>
<td>200 ppm 260 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>250 ppm 325 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>200 ppm 260 mg/m³</td>
<td>US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)</td>
</tr>
</tbody>
</table>

### Appropriate Engineering Controls

- **No specific recommendations.**

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

- **General information:** Provide sufficient ventilation during operations which cause vapor formation. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.

- **Eye/face protection:** Wear approved chemical safety glasses.

- **Skin Protection**
  - **Hand Protection:** Protective gloves are recommended.
  - **Other:** Wear suitable protective clothing.

- **Respiratory Protection:** No protection is ordinarily required under normal conditions of use and with adequate ventilation.

- **Hygiene measures:** Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. Physical and chemical properties

#### 9.1 Information on basic physical and chemical properties:

- **Appearance**
  - **Physical state:** Liquid
  - **Form:** Slightly viscous
  - **Color:** Green
  - **Odor:** Characteristic
  - **Odor threshold:** No data available.
  - **pH:** Not applicable

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SDS_US
Freezing point: No data available.
Boiling Point: > 412 °F (211 °C)
Flash Point: > 205 °F (96 °C) (Closed cup according to method ASTM D56.)
Evaporation rate: No data available.
Flammability (solid, gas): No data available.
  Flammability limit - upper (%): No data available.
  Flammability limit - lower (%): No data available.
Vapor pressure: No data available.
Vapor density: No data available.
Relative density: 1.0 (68 °F (20 °C)) Approximate
Solubility(ies)
  Solubility in water: Practically Insoluble
  Solubility (other): Acetone.: Very slightly soluble.
                    Ethanol.: Very slightly soluble.
                    Aliphatic hydrocarbons.: Miscible (in all proportions).
                    Aromatic hydrocarbons.: Miscible (in all proportions).
                    Chlorinated solvents.: Miscible (in all proportions).
Partition coefficient (n-octanol/water): No data available.
Auto-ignition temperature: No data available.
Decomposition temperature: > 392 °F (200 °C)
Viscosity: 90 mm2/s
Other information
  Oxidizing properties: According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

10. Stability and reactivity
Reactivity: No data available.
Chemical Stability: Stable.
Possibility of hazardous reactions: Will not occur.
Conditions to avoid: None known.
Incompatible Materials: Strong oxidizers, strong acids, and strong bases.
Hazardous Decomposition Products: Thermal decomposition may liberate oxides of carbon, tin and amorphous silica.

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:  ATEmix: 3,548.07 mg/kg

Dermal
Product:  ATEmix: 2,004.39 mg/kg

Inhalation
Product:  No data available.

Repeated dose toxicity
Product:  No data available.

Specified substance(s):
Benzene, (trimethoxysilyl)-  LOAEL (Rat, Oral): 100 mg/kg

Skin Corrosion/Irritation
Product:  No data available.

Specified substance(s):
Benzene, (trimethoxysilyl)-  OECD 404 (Rabbit): Not irritating

Specified substance(s):
Dimethylbis[(1-oxoneodecyl)oxy]stannane  OECD 404 (Rabbit): Slightly irritating.

Serious Eye Damage/Eye Irritation
Product:  No data available.

Specified substance(s):
Benzene, (trimethoxysilyl)-  OECD 405 (Rabbit): Not irritating

Specified substance(s):
Dimethylbis[(1-oxoneodecyl)oxy]stannane  OECD 405 (Rabbit): Slightly irritating.

Respiratory or Skin Sensitization
Product:  No data available.

Specified substance(s):
Benzene, (trimethoxysilyl)-, OECD 406 (Guinea Pig) Not a skin sensitizer.

**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):** No carcinogenic components identified

**Germ Cell Mutagenicity**

**In vitro**

**Product:** No data available.

- **Specified substance(s):** Benzene, (trimethoxysilyl)-
  Bacteria (OECD 471): None Reported
- **Specified substance(s):** Dimethylbis((1-o xoeneodecyl)oxy)stannane
  Bacteria (OECD 473): No mutagenic components identified.

**In vivo**

**Product:** No data available.

- **Specified substance(s):** Benzene, (trimethoxysilyl)-
  (OECD 413) (Rat) No mutagenic effects.

**Reproductive toxicity**

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.

- **Specified substance(s):** Benzene, (trimethoxysilyl)-
  No effects expected.

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** May cause damage to organs through prolonged or repeated exposure.

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

**Additional toxicological Information under the conditions of use**

Symptoms related to the physical, chemical and toxicological characteristics under the condition of use
Ingestion:
Specified substance(s):
    Methanol  No data available.

Inhalation:
Specified substance(s):
    Methanol  No data available.

Skin Contact:
Specified substance(s):
    Methanol  No data available.

Eye contact:
Specified substance(s):
    Methanol  No data available.

Additional toxicological Information under the conditions of use:

Acute toxicity

**Oral**
Specified substance(s):
    Methanol  (Human): (Expert judgement.) This material is toxic.

**Dermal**
Specified substance(s):
    Methanol  (Human):
    Toxic in contact with skin.

**Inhalation**
Specified substance(s):
    Methanol  LC 50 (Rat, Female, Male, 4 h): 128.2 mg/l Vapor
    (Human, ): Toxic by inhalation.

**Repeated dose toxicity**
Specified substance(s):
    Methanol  LOAEL (Rat(Female, Male), Inhalation - vapor): 1.3 mg/l

**Skin Corrosion/Irritation**
Specified substance(s):
    Methanol  No data available.

**Serious Eye Damage/Eye Irritation**
Specified substance(s):
    Methanol  (Rabbit): Not irritating

**Respiratory or Skin Sensitization**
Specified substance(s):
    Methanol  , According to a standardised method. (Guinea Pig)Not a skin sensitizer.

**Carcinogenicity**
Specified substance(s):
    Methanol  No data available.

**IARC Monographs on the Evaluation of Carcinogenic Risks to Humans**
Specified substance(s):
    Methanol

**US. National Toxicology Program (NTP) Report on Carcinogens**
Specified substance(s):
    Methanol
Germ Cell Mutagenicity  
**In vitro**
Specified substance(s):
Methanol  
Bacteria (OECD 471): No mutagenic effects.  
(OECD 476)No mutagenic effects.

**Germ Cell Mutagenicity**  
**In vivo**
Specified substance(s):
Methanol  
(Expert judgement.) (Mouse)No mutagenic effects.

**Reproductive toxicity**
Specified substance(s):
Methanol  
No data available.

Specific Target Organ Toxicity - Single Exposure
Specified substance(s):
Methanol  
Central nervous system. - Causes damage to organs.

Specific Target Organ Toxicity - Repeated Exposure
Specified substance(s):
Methanol  
No data available.

**Aspiration Hazard**
Specified substance(s):
Methanol  
No data available.

**Other effects:**
Specified substance(s):
Methanol  
Central Nervous System

### 12. Ecological information

**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**
Product:  
No data available.

Specified substance(s):
Benzene,  
(trimethoxysilyl)-  
LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l

**Aquatic Invertebrates**
Product:  
No data available.

Specified substance(s):
Benzene,  
(trimethoxysilyl)-  
EC 50 (Water flea (Daphnia magna), 48 h): > 100 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**
Product:  
No data available.

**Aquatic Invertebrates**
Product:  
No data available.

**Toxicity to Aquatic Plants**
Product:  
No data available.
Specified substance(s):  
Benzene, (trimethoxysilyl)-  
EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

Persistence and Degradability

Biodegradation

Product:  
No data available.

Specified substance(s):  
Benzene, (trimethoxysilyl)-  
Not readily degradable.

Dimethylbis[(1-oxooneodecyl)oxy]stannane  
The product is not readily biodegradable.

BOD/COD Ratio

Product:  
No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product:  
No data available.

Specified substance(s):  
Benzene, (trimethoxysilyl)-  
Potential to bioaccumulate is low.

Partition Coefficient n-octanol / water (log Kow)

Product:  
No data available.

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments

Benzene, (trimethoxysilyl)-  
No data available.

Dimethylbis[(1-oxooneodecyl)oxy]stannane  
No data available.

Other adverse effects:  
No data available.

13. Disposal considerations

Disposal instructions:  
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Contaminated packages should be as empty as possible.

14. Transport information

This material is not subject to transport regulations.

Environmental hazards:  
Not regulated.

Special precautions for user:  
No special precautions.
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

- X Acute (Immediate)  - X Chronic (Delayed)  -  - Fire  -  - Reactive  -  - Pressure Generating

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 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
No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Dimethylbis[(1-oxo decyl)oxy]stannane

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

US. Pennsylvania RTK - Hazardous Substances
No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK
No ingredient regulated by RI Right-to-Know Law present.
Inventory Status:
US TSCA Inventory: On or in compliance with the inventory.

Canada DSL Inventory List: On or in compliance with the inventory.

EINECS, ELINCS or NLP: On or in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory.

China Inv. Existing Chemical Substances: On or in compliance with the inventory.

Australia AICS: On or in compliance with the inventory.

Philippines PICCS: On or in compliance with the inventory.

New Zealand Inventory of Chemicals: On or in compliance with the inventory.

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

HMIS Hazard ID

Health * 2 H - Goggles, Gloves, Apron & Vapor Respirator
Flammability 1
Physical Hazards 0

PERSONAL PROTECTION H

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

NFPA Hazard ID

Flammability
Health
Reactivity
Special hazard.

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

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Version #: 14.1
Further Information: No data available.
Disclaimer: The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.