

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BLUESIL V-1067 A

### Recommended use and restriction on use

**Recommended use:** Molding diverse objects.

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

**Company Name:** Elkem Silicones USA Corp.  
**Address:** 7979 Park Place Road  
29745 York, SC  
**Telephone:** +1 (803) 792-3000  
**Fax:** +1 (803) 684-7202  
**Contact Person:**  
**E-mail:** product.stewardship@elkem.com

#### Supplier

**Company Name:** Elkem Silicones USA Corp.  
**Address:** Two Tower Blvd, Suite 1601  
08816-1100 East Brunswick, NJ  
**Telephone:** +1 (732) 227-2060  
**Fax:** +1 (732) 249-7000

**Emergency telephone number:** +1 (800) 424-9300 CHEMTREC

## 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**

Chemical Identity	CAS number	Content in percent (%)*
Octamethylcyclotetrasiloxane	556-67-2	0.5 - <1%

\* 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**

<b>General information:</b>	Provide sufficient ventilation during operations which cause vapor formation.
<b>Eye/face protection:</b>	Safety Glasses.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Protective gloves are recommended.
<b>Other:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	No protection is ordinarily required under normal conditions of use and with adequate ventilation.
<b>Hygiene measures:</b>	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**

<b>Physical state:</b>	Solid
<b>Form:</b>	Paste
<b>Color:</b>	White
<b>Odor:</b>	Slight odor
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Melting Point:</b>	No data available.
<b>Boiling Point:</b>	> 500 °F (260 °C)
<b>Flash Point:</b>	> 298 °F (148 °C) (Pensky-Martens Closed Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	Approximate 0.97 kg/dm <sup>3</sup> (68 °F (20 °C))
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	70,000 - 80,000 mm <sup>2</sup> /s

**10. Stability and reactivity**

<b>Reactivity:</b>	No data available.
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<b>Chemical Stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	Will not occur.
<b>Conditions to avoid:</b>	No other information noted.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	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

<b>Ingestion:</b>	No effects expected (assessment based on ingredients).
<b>Inhalation:</b>	No effects expected (assessment based on ingredients).
<b>Skin Contact:</b>	No effects expected (assessment based on ingredients).
<b>Eye contact:</b>	No effects expected (assessment based on ingredients).

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	No data available.
<b>Dermal Product:</b>	No data available.
<b>Inhalation Product:</b>	No data available.

<b>Repeated dose toxicity Product:</b>	No effects expected (assessment based on ingredients).
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<b>Skin Corrosion/Irritation Product:</b>	No effects expected (assessment based on ingredients).
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<b>Serious Eye Damage/Eye Irritation Product:</b>	No effects expected (assessment based on ingredients).
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### Respiratory or Skin Sensitization

**Product:** No effects expected (assessment based on ingredients).

### Carcinogenicity

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane No effects expected.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Titanium dioxide

### 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 effects expected (assessment based on ingredients).

#### In vivo

**Product:** No effects expected (assessment based on ingredients).

### Reproductive toxicity

**Product:** No data available.

**Specified substance(s):**

Octamethylcyclotetrasiloxane Suspected of damaging fertility.

### Specific Target Organ Toxicity - Single Exposure

**Product:** No effects expected (assessment based on ingredients).

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No effects expected (assessment based on ingredients).

### Aspiration Hazard

**Product:** No effects expected (assessment based on ingredients).

### Other effects:

Titanium dioxide is listed by IARC as possibly carcinogenic to humans (Group 2B). This listing is based on inadequate evidence of carcinogenicity in humans and sufficient evidence in experimental animals. In lifetime inhalation studies of rats, airborne respirable-size titanium dioxide particles have been shown to cause lung tumors at concentrations associated with substantial particle lung burdens and consequential pulmonary overload and inflammation. However, other laboratory animals such as mice and hamsters did not develop lung tumors under similar testing with titanium dioxide. Furthermore, human epidemiology studies do not suggest an association between occupational exposure to titanium dioxide and risk for cancer.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

##### Fish

**Product:** No effects expected (assessment based on ingredients).

##### Aquatic Invertebrates

**Product:** No effects expected (assessment based on ingredients).

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No effects expected (assessment based on ingredients).

##### Aquatic Invertebrates

**Product:** No effects expected (assessment based on ingredients).

##### Toxicity to Aquatic Plants

**Product:** No effects expected (assessment based on ingredients).

### Persistence and Degradability

#### Biodegradation

**Product:** The product is not readily biodegradable.

#### BOD/COD Ratio

**Product:** Not determined.

### 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.

#### Known or predicted distribution to environmental compartments

Octamethylcyclotetrasiloxane  
**Product:** No data available.

**Other adverse effects:** None known.

## 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)  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



WARNING: This product can expose you to chemicals including

Titanium dioxide, which is known to the State of California to cause cancer.

For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

#### 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.
EU EINECS List:	On or in compliance with the inventory.
Japan (ENCS) List:	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.
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**

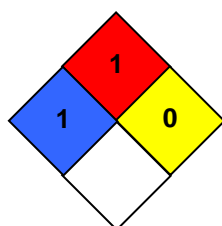
**HMIS Hazard ID**

<b>Health</b>	*	1
<b>Flammability</b>	1	
<b>Physical Hazards</b>	0	
<b>PERSONAL PROTECTION</b>		<b>B</b>

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
	Health
	Reactivity
	Special hazard.

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

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**Issue Date:** 09/06/2018

**Revision Date:** No data available.

**Version #:** 7.0

**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.

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BLUESIL V-1067 BLUE B

### Other means of identification

**Synonyms:** RHODORSIL V-1067 BLUE B

### Recommended use and restriction on use

**Recommended use:** Molding diverse objects.

**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

Company Name: Elkem Silicones USA Corp.  
Address: 7979 Park Place Road  
29745 York, SC  
Telephone: +1 (803) 792-3000  
Fax: +1 (803) 684-7202  
Contact Person:  
E-mail: product.stewardship@elkem.com

#### Supplier

Company Name: Elkem Silicones USA Corp.  
Address: Two Tower Blvd, Suite 1601  
08816-1100 East Brunswick, NJ  
Telephone: +1 (732) 227-2060  
Fax: +1 (732) 249-7000

**Emergency telephone number:** +1 (800) 424-9300 CHEMTREC

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 3

#### 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:** Flammable liquid and vapor.  
Harmful if swallowed.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use non-sparking tools. Take action to prevent static discharges. 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.

**Storage:** Store in tightly closed original container in a dry, cool and well-ventilated place.

**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:** No data available.

**Substance(s) formed under the conditions of use:**

Chemical Identity	CAS-No.	Concentration
Methanol	67-56-1	<13%

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

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Benzene, (trimethoxysilyl)-	2996-92-1	85 - <95%
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	5 - <10%
Methanol	67-56-1	0.5 - <1%

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

**Composition Comments:** Silicone curing agent

**4. First-aid measures**

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

<b>Ingestion:</b>	Do not induce vomiting. Rinse mouth thoroughly. Immediately call a POISON CENTER/doctor.
<b>Inhalation:</b>	Move into fresh air and keep at rest. Get medical attention if symptoms occur.
<b>Skin Contact:</b>	Wash contact areas with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention.
<b>Eye contact:</b>	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**

<b>Symptoms:</b>	None known.
<b>Hazards:</b>	No specific recommendations.

**Indication of immediate medical attention and special treatment needed**

<b>Treatment:</b>	No specific recommendations.
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**5. Fire-fighting measures**

<b>General Fire Hazards:</b>	No specific recommendations.
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**Suitable (and unsuitable) extinguishing media**

**Suitable extinguishing media:** Water spray, foam, dry powder or carbon dioxide.

**Unsuitable extinguishing media:** None known.

**Specific hazards arising from the chemical:** Hazardous Decomposition Products : oxides of carbon and tin.

**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:** Avoid forming spray/aerosol mists. Provide adequate ventilation if fumes or vapors are generated. 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

Chemical Identity	Type	Exposure Limit Values	Source
Dimethylbis[(1-oxoneodecyl)oxy]stannane - as Sn	TWA	0.1 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
	STEL	0.2 mg/m3	US. ACGIH Threshold Limit Values (01 2010)
	PEL	0.1 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

#### Additional exposure limits under the conditions of use

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

**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:** Wear appropriate clothing to prevent any possibility of skin contact.

<b>Respiratory Protection:</b>	If ventilation is insufficient, suitable respiratory protection must be provided.
<b>Hygiene measures:</b>	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

<b>Physical state:</b>	Liquid
<b>Form:</b>	Viscous
<b>Color:</b>	Blue
<b>Odor:</b>	Alcohol
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	> 412 °F (211 °C)
<b>Flash Point:</b>	140 °F (60 °C) (Pensky-Martens Closed Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	Approximate 1.07 kg/dm <sup>3</sup> (68 °F (20 °C))
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Practically Insoluble
<b>Solubility (other):</b>	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).
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	20 - 30 mm <sup>2</sup> /s
<b>Other information</b>	
<b>Oxidizing properties:</b>	According to the data on the components According to the data on the components Not considered as oxidizing. Not considered as oxidizing. (according to EC criteria) (evaluation by structure-activity relationship)

## 10. Stability and reactivity

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

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

##### Oral

<b>Product:</b>	No data available.
<b>Specified substance(s):</b> Benzene, (trimethoxysilyl)-	LD 50 (Rat): 1,049 mg/kg
Dimethylbis[(1-oxoneodecyl)oxy]stannane	LD 50 (Rat): 894 mg/kg

##### Dermal

<b>Product:</b>	No data available.
<b>Specified substance(s):</b>	



Benzene,  
(trimethoxysilyl)- LD 50LD 50 (Rabbit): 2,471 mg/kg

Dimethylbis[(1-oxoneodecyl)oxy]stannane LD 50LD 50 (Rat): 2,000 mg/kg

**Inhalation**

**Product:** No data available.

**Specified substance(s):**  
Methanol LC 50 (Rat, 4 h): 128.2 mg/l

**Repeated dose toxicity**

**Product:** No data available.

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

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

**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.

**Specified substance(s):**  
Methanol (Rabbit): Not irritating

**Respiratory or Skin Sensitization**

**Product:** No data available.

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

**Specified substance(s):**  
Methanol, According to a standardised method. (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-oxodecyl)oxy]stannane Bacteria (OECD 473): No mutagenic components identified.

**Specified substance(s):**  
Methanol Bacteria (OECD 471): No mutagenic effects.  
In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic effects.

#### In vivo

**Product:** No data available.

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

**Specified substance(s):**  
Methanol (Expert judgement) (Mouse) 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.

**Specified substance(s):**  
Methanol Central nervous system. - Causes damage to organs.

#### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

**Specified substance(s):**  
Benzene,  
(trimethoxysilyl)- 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.  
In vitro gene mutations test on mammalian cells: (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

<b>12. Ecological information</b>
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**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

Methanol LC 50 (Bluegill Sunfish, 96 h): 15,400 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

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

Methanol EC 50 (Water flea (Daphnia magna), 48 h): 18,260 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Specified substance(s):**

Methanol NOEC (Fish, 28 d): 446.7 mg/l

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Methanol NOEC (Aquatic invertebrates, 21 d): 208 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**

Benzene,  
(trimethoxysilyl)- EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 100 mg/l

Methanol EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): 22,000 mg/l

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

Benzene,  
(trimethoxysilyl)- Not readily degradable.

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

Methanol 95 % (20 d) 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.

Methanol (Expert judgement) The product is not considered to have a bioaccumulative potential.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**  
Methanol Log Kow: -0.77

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Benzene, (trimethoxysilyl)- No data available.  
Dimethylbis[(1-oxoneodecyl)oxy]stannane No data available.  
Methanol 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.

RCRA Information

**Waste code:** EPA RCRA HAZARDOUS WASTE CODE: D001

**14. Transport information**

This material is not subject to transport regulations.

**Environmental hazards:** Not regulated.

**Special precautions for user:** This product does not sustain combustion as determined by a test method specified in 49 CFR 173 - Appendix H to Part 173 Method for Sustained Combustibility.

**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)  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-oxoneodecyl)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.

Japan (ENCS) List: On or in compliance with the inventory.

Australia AICS: On or in compliance with the inventory.

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

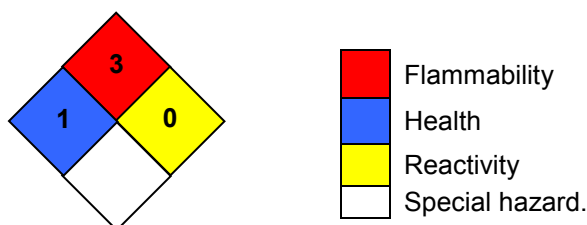
**HMIS Hazard ID**

<b>Health</b>	* 1
<b>Flammability</b>	1
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	H

H - Goggles, Gloves, Apron & Vapor Respirator

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

**NFPA Hazard ID**



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

**Issue Date:** 09/28/2018

**Revision Date:** No data available.

**Version #:** 7.0

**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.





# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BLUESIL CATA HI PRO BLUE

### Recommended use and restriction on use

**Recommended use:** Catalyst  
**Restrictions on use:** None known.

### Manufacturer/Importer/Supplier/Distributor Information

#### Manufacturer

**Company Name:** Elkem Silicones USA Corp.  
**Address:** 7979 Park Place Road  
29745 York, SC  
**Telephone:** +1 (803) 792-3000  
**Fax:** +1 (803) 684-7202  
**Contact Person:**  
**E-mail:** product.stewardship@elkem.com

#### Supplier

**Company Name:** Elkem Silicones USA Corp.  
**Address:** Two Tower Blvd, Suite 1601  
08816-1100 East Brunswick, NJ  
**Telephone:** +1 (732) 227-2060  
**Fax:** +1 (732) 249-7000

**Emergency telephone number:** +1 (800) 424-9300 CHEMTREC

## 2. Hazard(s) identification

### Hazard Classification

#### Physical Hazards

Flammable liquids Category 4

#### 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:** Combustible liquid.  
Harmful if swallowed.  
Suspected of damaging fertility or the unborn child.  
May cause damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF SWALLOWED: Rinse mouth. Call a POISON CENTER/doctor if you feel unwell. IF exposed or concerned: Get medical advice/attention. Fight fire with normal precautions from a reasonable distance.

**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:** No data available.

**Substance(s) formed under the conditions of use:**

Chemical Identity	CAS-No.	Concentration
Methanol	67-56-1	<13%

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

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Benzene, (trimethoxysilyl)-	2996-92-1	25 - <35%
Dimethylbis[(1-oxodecyl)oxy]stannane	68928-76-7	1 - <5%

\* 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 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. 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

Chemical Identity	Type	Exposure Limit Values	Source
Dimethylbis[(1-oxoneodecyl)oxy]stannane - as Sn	TWA	0.1 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (01 2010)
	STEL	0.2 mg/m <sup>3</sup>	US. ACGIH Threshold Limit Values (01 2010)
	PEL	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	0.1 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

#### Additional exposure limits under the conditions of use

Chemical Identity	Type	Exposure Limit Values	Source
Methanol	STEL	250 ppm	US. ACGIH Threshold Limit Values (01 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values (01 2010)
	STEL	250 ppm 325 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	200 ppm 260 mg/m <sup>3</sup>	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	200 ppm 260 mg/m <sup>3</sup>	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	250 ppm 325 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm 260 mg/m <sup>3</sup>	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**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:** Wear suitable protective clothing.

**Respiratory Protection:** In case of inadequate ventilation use suitable respirator.

**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

<b>Physical state:</b>	Liquid
<b>Form:</b>	Viscous
<b>Color:</b>	Blue
<b>Odor:</b>	Strong
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	194 °F (90 °C) (Closed cup according to method Afnor T 60103.)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	1 kg/dm <sup>3</sup> (68 °F (20 °C))
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Practically Insoluble
<b>Solubility (other):</b>	Acetone: Very slightly soluble. Ethanol: Very slightly soluble. Aliphatic hydrocarbons: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions).
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	Approximate 65 mm <sup>2</sup> /s (77 °F (25 °C))

#### Other information

<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)
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## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<b>Chemical Stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	Will not occur.
<b>Conditions to avoid:</b>	No other information noted.
<b>Incompatible Materials:</b>	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:** ATEmix: 1,001.62 mg/kg  
**Dermal**  
**Product:** ATEmix: 192,807.57 mg/kg  
**Inhalation**  
**Product:** ATEmix: 3 mg/l

**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-oxoneodecyl)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, No effects expected.  
(trimethoxysilyl)-

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.  
**Specified substance(s):**  
Benzene, May cause damage to organs through prolonged or repeated exposure.  
(trimethoxysilyl)-

**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.  
In vitro gene mutations test on mammalian cells: (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:** 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.

**Known or predicted distribution to environmental compartments**

Benzene, (trimethoxysilyl)- No data available.  
Dimethylbis[(1-oxoneodecyl)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:** This product does not sustain combustion as determined by a test method specified in 49 CFR 173 - Appendix H to Part 173 Method for Sustained Combustibility.

#### 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)  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-oxoneodecyl)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.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	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**

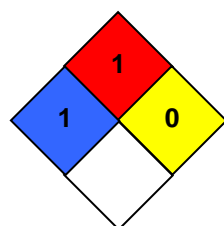
**HMIS Hazard ID**

<b>Health</b>	*	1
<b>Flammability</b>	1	
<b>Physical Hazards</b>	0	
<b>PERSONAL PROTECTION</b>		B

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
	Health
	Reactivity
	Special hazard.

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

**Issue Date:** 03/29/2018

**Revision Date:** No data available.

**Version #:** 16.0

**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.