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

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:	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:	Solid
Form:	Paste
Color:	White
Odor:	Slight odor
Odor threshold:	No data available.
pH:	Not applicable
Melting Point:	No data available.
Boiling Point:	> 500 °F (260 °C)
Flash Point:	> 298 °F (148 °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 0.97 kg/dm3 (68 °F (20 °C))
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	70,000 - 80,000 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 effects expected (assessment based on ingredients).
Inhalation:	No effects expected (assessment based on ingredients).
Skin Contact:	No effects expected (assessment based on ingredients).
Eye contact:	No effects expected (assessment based on ingredients).

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 effects expected (assessment based on ingredients).

Skin Corrosion/Irritation
Product: No effects expected (assessment based on ingredients).

Serious Eye Damage/Eye Irritation
Product: No effects expected (assessment based on ingredients).

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	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.

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

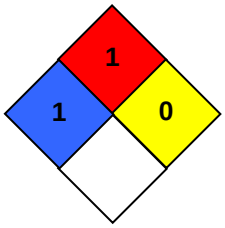
HMIS Hazard ID

Health	*	1
Flammability		1
Physical Hazards		0
PERSONAL PROTECTION		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:	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 B CLEAR

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.

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	0.1 - <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".

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. Immediately call a POISON CENTER/doctor.

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

Skin Contact: Wash contact areas with soap and water. If skin irritation or an allergic skin reaction develops, get medical attention.

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: 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)
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)

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Methanol (methanol: Sampling time: End of shift.)	15 mg/l (Urine)	ACGIH BEL (01 2010)

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.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided.

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:	Mobile
Color:	Opalescent
Odor:	Slight odor
Odor threshold:	No data available.
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	> 412 °F (211 °C)
Flash Point:	99 °F (37 °C) (Pensky-Martens Closed Cup)
Evaporation rate:	< 1 butyl acetate=1
Flammability (solid, gas):	No data available.
Flammability limit - upper (%):	No data available.
Flammability limit - lower (%):	No data available.
Vapor pressure:	< 27 hPa (226 °F (108 °C))
Vapor density:	No data available.
Density:	Approximate 1.07 kg/dm3 (68 °F (20 °C))
Solubility(ies)	
Solubility in water:	Practically Insoluble
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:	20 - 30 mm2/s

Other information

Oxidizing properties:	According to the data on the components Not considered as oxidizing. (according to EC criteria)

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 or combustion may liberate oxides of carbon and tin.

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.

Specified substance(s):

Benzene, (trimethoxysilyl)-	LD 50 (Rat): 1,049 mg/kg
Dimethylbis[(1-oxoneodecyl)oxy]stannane	LD 50 (Rat): 894 mg/kg

Dermal

Product: No data available.

Specified substance(s):

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-oxoneodecyl)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.

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
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.

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

X	Acute (Immediate)	X	Chronic (Delayed)	X	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

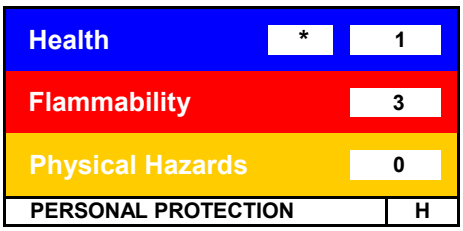
US. Massachusetts RTK - Substance List
No ingredient regulated by MA Right-to-Know Law present.

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.

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

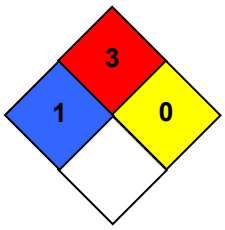
HMIS Hazard ID

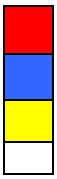


H - Goggles, Gloves, Apron & Vapor Respirator

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

NFPA Hazard ID





Flammability
Health
Reactivity
Special hazard.

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.