

SAFETY DATA SHEET

1. Identification

Product identifier: BLUESIL V-1062 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	0.1 - <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. 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

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 special 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:	Odorless
Odor threshold:	No data available.
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 392 °F (200 °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:	< 0.1 hPa (68 °F (20 °C))
Vapor density:	No data available.
Density:	Approximate 1.1 kg/dm ³ (68 °F (20 °C))
Solubility(ies)	
Solubility in water:	Insoluble
Solubility (other):	Diethylether: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Acetone: Very slightly soluble. Ethanol: Very slightly soluble.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	> 752 °F (400 °C)
Decomposition temperature:	> 392 °F (200 °C)
Viscosity:	60,000 mm ² /s (68 °F (20 °C))

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: 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: ATEmix: 4,609.9 mg/kg

Inhalation Product: No data available.

Specified substance(s):
Octamethylcyclotetrasilox LC 50 (Rat, 4 h): 36 mg/l

ane

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
NOAEL (Rat, Inhalation): 1.820 mg/l
NOAEL (Rabbit, Dermal): 960 mg/kg

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
(Rabbit, 24 h): Not irritating

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
(Rabbit, 24 h): Not irritating

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
(Guinea Pig) Not a skin sensitizer.

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 data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
Bacteria: No mutagenic components identified.
Chromosomal aberration: No mutagenic components identified.
In vitro gene mutations test on mammalian cells:: No mutagenic components identified.

In vivo

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
(Rat)No effects expected.

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.

Specified substance(s):

Octamethylcyclotetrasiloxane
No effects expected.

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
LC 50 (Oncorhynchus mykiss, 96 h): ≥ 0.022 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
EC 50 (Water flea (Daphnia magna), 48 h): > 0.015 mg/l

ane

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane NOEC (Oncorhynchus mykiss, 93 d): ≥ 0.0044 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane NOEC (Water flea (Daphnia magna), 21 d): 0.015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0.022 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

Octamethylcyclotetrasiloxane 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) 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.
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.
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

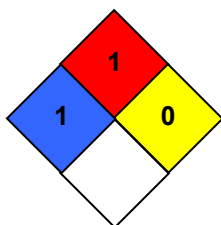
HMIS Hazard ID

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: 04/12/2018

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 GREEN

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

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:

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	20 - 30%
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 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.

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: 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

Chemical Identity	Type	Exposure Limit Values	Source
Dimethylbis[(1-	TWA	0.1 mg/m ³	US. ACGIH Threshold Limit Values (01 2010)

oxoneodecyl)oxy]stannane - as Sn			
	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. 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
- Not applicable

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 mm ² /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-oxodecyl)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-oxoneodecyl)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-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: 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

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.
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

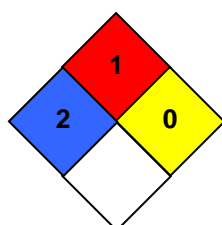
HMIS Hazard ID

Health	*	2
Flammability	1	
Physical Hazards	0	
PERSONAL PROTECTION		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



Flammability
 Health
 Reactivity
 Special hazard.

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

Issue Date:	10/04/2017
Revision Date:	No data available.
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.