



Version: 6.1

Revision Date: 10/03/2017

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SAFETY DATA SHEET

1. Identification

Product identifier: BLUESIL VRM-65 A

Other means of identification

Synonyms: RHODORSIL VRM-65 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 or the unborn child.

Titanium Dioxide:

When encapsulated in a polymer, is not expected to pose a health hazard

when processed under normal conditions of use.

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Precautionary Statements

Prevention: Use personal protective equipment as required.

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

Storage: Store in a 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 (%)*
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 skin thoroughly with soap and water. Get medical attention if

symptoms occur after washing.

Eye contact: Immediately rinse with water for several 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

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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:

Sweep or scoop up and remove.

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

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.

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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: Solid
Form: Paste
Color: White
Odor: Odorless

Odor threshold:No data available.pH:Not applicableMelting Point:No data available.Boiling Point:> 500 °F (260 °C)

Flash Point: > 298 °F (148 °C) (Pensky-Martens Closed Cup)

Evaporation rate:

Flammability (solid, gas):

Flammability limit - upper (%):

Flammability limit - lower (%):

Vapor pressure:

Vapor density:

Relative density:

No data available.

Solubility(ies)

Solubility in water:
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:
No data available.

10. Stability and reactivity

Reactivity: No data available.

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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:

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: 8,643.58 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):

Octamethylcyclotetrasilox NOAEL (Rat, Inhalation, 24 months): 1.820 mg/l

ane NOAEL (Rabbit, Dermal, 3 weeks): 960 mg/kg

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Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasil (Rabbit, 24 h): Not irritating

oxane

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasil (Rabbit, 24 h): Not irritating

oxane

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasil (Pig)Not a skin sensitizer.

oxane

Carcinogenicity

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox No effects expected.

ane

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):

Octamethylcyclotetrasilox Bacteria: No mutagenic components identified.

ane 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):

Octamethylcyclotetrasilox (Rat)No mutagenic components identified.

ane

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Reproductive toxicity

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Suspected of damaging fertility.

ane

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):

Octamethylcyclotetrasilox No effects expected.

ane

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox LC 50 (Oncorhynchus mykiss, 96 h): >= 0.022 mg/l

ane

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

ane

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l

ane

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

ane

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Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0.022 mg/l

ane

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox 3.7 % (29 d)

ane

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12,400

ane

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

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Octamethylcyclotetrasiloxa

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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.

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15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Acute (Immediate) X Chronic (Delayed)	Fire	Reactive	Pressure Generating
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SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

No ingredient regulated by CA Prop 65 present.

US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

No ingredient regulated by PA Right-to-Know Law present.

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

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Inventory Status:

Australia AICS: 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.

Philippines PICCS: On or in compliance with the inventory.

US TSCA Inventory: 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

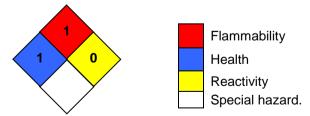
HMIS Hazard ID

Health	*		1
Flammability			1
Physical Hazards			0
PERSONAL PROTECTION			В

Safety glasses and gloves

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: 10/03/2017

Revision Date: No data available.

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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.

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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 - Category 2

Repeated Exposure

Label Elements

Hazard Symbol:



Signal Word: Warning

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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- oxoneodecyl)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.

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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

containr 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.

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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	Туре	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	Туре	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 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.

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9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance

Physical state: Liquid
Form: Viscous
Color: Blue
Odor: Strong

Odor threshold:

pH:

Not applicable

Freezing point:

No data available.

No data available.

No data available.

Flash Point: 194 °F (90 °C) (Closed cup according to method Afnor T

60103.)

Evaporation rate:

Flammability (solid, gas):

Flammability limit - upper (%):

Flammability limit - lower (%):

No data available.

No data available.

Vapor pressure:

No data available.

No data available.

No data available.

No data available.

Density: 1 kg/dm3 (68 °F (20 °C))

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).

Partition coefficient (n-octanol/water):

Auto-ignition temperature:

No data available.

No data available.

No data available.

Viscosity: Approximate 65 mm2/s (77 °F (25 °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.

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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,

LOAEL (Rat, Oral): 100 mg/kg

(trimethoxysilyl)-

Skin Corrosion/Irritation

Product: No data available.

Specified substance(s):

Benzene, OECD 404 (Rabbit): Not irritating

(trimethoxysilyl)-

Specified substance(s):

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Dimethylbis[(1oxoneodecyl)oxylstann ane

OECD 404 (Rabbit): Slightly irritating.

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Benzene. OECD 405 (Rabbit): Not irritating

(trimethoxysilyI)-

Specified substance(s):

Dimethylbis[(1-

OECD 405 (Rabbit): Slightly irritating. oxoneodecyl)oxy|stann

ane

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Benzene. , OECD 406 (Guinea Pig)Not a skin sensitizer.

(trimethoxysilyl)-

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, Bacteria (OECD 471): None Reported

(trimethoxysilyl)-

Specified substance(s):

Dimethylbis[(1-Bacteria (OECD 473): No mutagenic components identified.

oxoneodecyl)oxy]stannan

In vivo

Product: No data available.

Specified substance(s):

Benzene, (OECD 413) (Rat)No mutagenic effects.

(trimethoxysilyl)-

Reproductive toxicity

Product: No data available.

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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

OralSpecified 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 toxicitySpecified substance(s):

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

Skin Corrosion/Irritation

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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):

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Benzene, LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l

(trimethoxysilyl)-

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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

(trimethoxysilyI)-

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

(trimethoxysilyl)-

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- No data available.

oxoneodecyl)oxy]stannane

Other adverse effects: No data available.

13. Disposal considerations

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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

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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

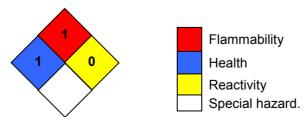
HMIS Hazard ID

Health	*		1
Flammability			1
Physical Hazards			0
PERSONAL PROTECTION			В

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



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

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Version: 16.0

Revision Date: 03/29/2018

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.

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