



# SAFETY DATA SHEET

# 1. Identification

## Product identifier: BLUESIL V-330

Other means of identification	
Synonyms:	RHODORSIL V-330

Recommended use and restriction on use

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

## Manufacturer/Importer/Supplier/Distributor Information

## Manufacturer

Company Name:	Bluestar 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@bluestarsilicones.com

## Supplier

Company Name:	Bluestar 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**

#### **Label Elements**

Hazard Symbol:	No symbol.
Signal Word:	No signal word.
Hazard Statement:	Quartz : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.
Precautionary Statement	
Prevention:	Not applicable.
Response:	Not applicable.
Storage:	Not applicable.



Other hazards which do not	
result in GHS classification:	

the chemical:

SDS\_US

No data available.

# 3. Composition/information on ingredients

Mixtures		
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:	Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.	
Eye contact:	In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.	
Most important symptoms/effect	s, 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	Product will burn under fire conditions. Hazardous Decomposition Products	

: formaldehyde, oxides of carbon and silica.



Special protective equipment an	d precautions for firefighters
Special fire fighting procedures:	Water spray should be used to cool containers.
Special protective equipment for fire-fighters:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing. Use water to keep fire exposed containers cool and disperse vapors.
6. Accidental release measures	S
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 inert material. Scrape up and place in appropriate closed container see Section 7 of the MSDS.
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 Limit	s Quartz : 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. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.
Eye/face protection:	Wear approved 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:	Viscous.
Color:	Beige.
Odor:	Slight odor
Odor threshold:	No data available.
pH:	Not applicable.
Freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 392 °F (200 °C)
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:	< 0.013 hPa (68 °F (20 °C))
Vapor density:	No data available.
Relative density:	1.36 (77 °F (25 °C))
Solubility(ies)	
Solubility in water:	Insoluble in water
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	> 752 °F (400 °C)
Decomposition temperature:	No data available.
Viscosity:	18,000 - 22,000 mm2/s (68 °F (20 °C))

# 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 dimethylcyclosiloxanes. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.
11. Toxicological information	
Information on likely routes of ex Ingestion:	posure No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Symptoms related to the physical Ingestion:	, <b>chemical and toxicological characteristics</b> No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Information on toxicological effect	ts
Acute toxicity (list all possible	routes of exposure)
Oral Product:	No data available.
Dermal Product:	ATEmix: 20,142.33 mg/kg
Inhalation Product:	No data available.
Repeated dose toxicity Product:	No data available.
Skin Corrosion/Irritation Product:	No data available.
Serious Eye Damage/Eye Irritatio Product:	<b>n</b> No data available.
Respiratory or Skin Sensitization Product:	No data available.
Carcinogenicity Product:	No data available.



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

Quartz (SiO2) Overall evaluation: Carcinogenic to humans.

## US. National Toxicology Program (NTP) Report on Carcinogens: Quartz (SiO2) Known carcinogen.

## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050): No carcinogenic components identified

## **Germ Cell Mutagenicity**

In vitro Product:	No data available.
In vivo Product:	No data available.
Reproductive toxicity Product:	No data available.
Specific Target Organ Toxicity Product:	- Single Exposure No data available.
Specific Target Organ Toxicity Product:	- Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other effects:	No data available.

# 12. Ecological information

## **Ecotoxicity:**

# Acute hazards to the aquatic environment:

Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Chronic hazards to the aquation	environment:
Fish Product:	No data available.
Aquatic Invertebrates Product:	No data available.
Toxicity to Aquatic Plants Product:	No data available.



#### Persistence and Degradability

Biodegradation Product:	No data available.
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	CF) No data available.
Partition Coefficient n-octar Product:	<b>No data available.</b>
Mobility in Soil:	No data available.
Other Adverse Effects:	No data available.
13. Disposal considerations	
Disposal instructions:	Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.
14. Transport information	
This material is not subject to transp	ort regulations.
Environmental hazards:	Not regulated.

# 15. Regulatory information

Special precautions for user:

#### **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
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No special precautions.

#### 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**

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Quartz (SiO2) Carcinogenic.

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

Chemical Identity Quartz (SiO2)

## **US. Massachusetts RTK - Substance List**

Chemical Identity Quartz (SiO2)

#### **US. Pennsylvania RTK - Hazardous Substances**

Chemical Identity Quartz (SiO2)

#### **US. Rhode Island RTK**

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

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.
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

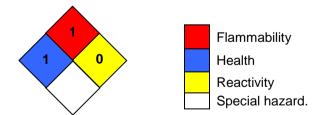
# **HMIS Hazard ID**



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:	01/06/2016
Revision Date:	No data available.
Version #:	9.1
SDS US	



Further Information:

**Disclaimer:** 

No data available.

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 CA-45 BLUE

#### Other means of identification Synonyms:

**RHODORSIL CA-45 BLUE** 

#### Recommended use and restriction on use

Recommended use: Catalyst Restrictions on use: None known.

## Manufacturer/Importer/Supplier/Distributor Information

## Manufacturer

Company Name:	Bluestar 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@bluestarsilicones.com

#### Supplier

Company Name:	Bluestar Silicones USA Corp.
Address:	Two Tower Blvd, Suite 1601
	08816-1100 East Brunswick, NJ
Telephone:	+1 (732) 227-2060
Fax:	+1 (732) 249-7000
Contact Person:	
e-mail:	product.stewardship@bluestarsilicones.com

## 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:

**Hazard Statement:** 

Suspected of damaging fertility or the unborn child.



Warning

Precautionary Statement	
Prevention:	Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store in 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:	Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to Section 10: "Stability and Reactivity".

# 3. Composition/information on ingredients

## **Mixtures**

	Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
	Octamethylcyclotetrasiloxane	D4,	556-67-2	0.1 - 1%
	* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			
C	<b>Composition Comments:</b> Mixture of Polyorganosiloxanes, fillers.			

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:	Remove contaminated clothing and shoes. Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.
Eye contact:	In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

# Most important symptoms/effects, acute and delayed

Symptoms:	None known.

Indication of immediate medical attention and special treatment needed

•	Treatment:
200	110

No specific recommendations.



# 5. Fire-fighting measures

General Fire Hazards:	Water spray should be used to cool containers.		
Suitable (and unsuitable) extingu	ishing 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. Do not use alkaline powders.		
Specific hazards arising from the chemical:	Product will burn under fire conditions. This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to Section 10: "Stability and Reactivity". 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 NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.		
6. Accidental release measures			
Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Avoid contact with bases. Eliminate all sources of ignition.		
Methods and material for containment and cleaning up:	Ventilate the area. Use only non-sparking tools. Absorb with inert material. Avoid contact with bases. Scrape up and place in appropriate vented container.		
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.		
Environmental Precautions:	Do not allow to enter drains, sewers or watercourses.		
7. Handling and storage			
Precautions for safe handling:	Provide adequate ventilation if fumes or vapors are generated. Do not mix with incompatible materials. For further information, refer to Section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.		
Conditions for safe storage, including any incompatibilities:	Store in original vented container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.		

# 8. Exposure controls/personal protection

## **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.





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 safety glasses.		
Skin Protection Hand Protection:	Protective gloves are recommended.		
Other:	Wear suitable protective clothing.		
<b>Respiratory Protection:</b>	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:	Blue
Odor:	Slight odor
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	No data available.
International Inventories:	No data available.
Flash Point:	> 201 °F (94 °C)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability limit - upper (%):	74 %(V) Hydrogen.
Flammability limit - lower (%):	4 %(V) Hydrogen.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.04 (77 °F (25 °C))
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	> 752 °F (400 °C)
Decomposition temperature:	No data available.
Viscosity:	400 - 600 mm2/s (77 °F (25 °C))



# 10. Stability and reactivity

Reactivity:	No data available.			
Chemical Stability:	Material is stable under normal conditions.			
Possibility of Hazardous Reactions:	This product may generate hydrogen gas.			
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.			
Incompatible Materials:	A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with : Strong oxidizers, strong bases and chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.			
Hazardous Decomposition Products:	Thermal decomposition may liberate dimethylcyclosiloxanes. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.			

# 11. Toxicological information

Information on likely routes of ex Ingestion:	<b>xposure</b> No data available.			
Inhalation:	No data available.			
Skin Contact:	No data available.			
Eye contact:	No data available.			
Symptoms related to the physica Ingestion:	al, chemical and toxicological characteristics No data available.			
Inhalation:	No data available.			
Skin Contact:	No data available.			
Eye contact:	No data available.			
Information on toxicological effe	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 SDS\_US



BLUESTAR
SILICONES

Product:	No data available.			
Specified substance(s): Octamethylcyclotetrasilox ane	NOAEL (Rat, Inhalation, 24 months): 1.820 mg/l NOAEL (Rabbit, Dermal, 3 weeks): 960 mg/kg			
Skin Corrosion/Irritation Product:	No data available.			
Specified substance(s): Octamethylcyclotetrasil oxane	(Rabbit, 24 h): Not irritating			
Serious Eye Damage/Eye Irritati Product:	<b>on</b> No data available.			
Specified substance(s): Octamethylcyclotetrasil oxane	(Rabbit, 24 h): Not irritating			
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.			
Specified substance(s): Octamethylcyclotetrasil oxane	(Pig)Not a skin sensitizer.			
Carcinogenicity Product:	No data available.			
IARC Monographs on the No carcinogenic component	Evaluation of Carcinogenic Risks to Humans: s identified			
US. National Toxicology P No carcinogenic component	rogram (NTP) Report on Carcinogens: s identified			
US. OSHA Specifically Reg No carcinogenic component	gulated Substances (29 CFR 1910.1001-1050): s identified			
Germ Cell Mutagenicity				
In vitro Product:	No data available.			
Specified substance(s): Octamethylcyclotetrasilox ane	Bacteria: No mutagenic components identified Chromosomal aberration: No mutagenic components identified			
In vivo Product:	No data available.			
Specified substance(s): Octamethylcyclotetrasilox ane	(Rat)No mutagenic components identified			
Reproductive Toxicity Product:	No data available.			





Specific Target Organ Toxicity - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other Effects:	No data available.
12. Ecological information	
Ecotoxicity:	
Acute hazards to the aquatic e	environment:
Fish Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Oncorhynchus mykiss, 96 h): >= 0.022 mg/l
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	EC 50 (Water flea (Daphnia magna), 48 h): > 0.015 mg/l
Chronic hazards to the aquation	c environment:
Fish Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	NOEC (Water flea (Daphnia magna), 21 d): 0.0079 mg/l
Toxicity to Aquatic Plants	No data available

No data available.

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

# Persistence and Degradability

ane



Biodegradation Product:	No data available.			
Specified substance(s): Octamethylcyclotetrasilox ane	3.7 % (29 d)			
BOD/COD Ratio Product:	No data available.			
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>CF)</b> No data available.			
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead Minnow, Bioconcentration Factor (BCF): 12,400			
Partition Coefficient n-octanol / water (log Kow)				
Product:	No data available.			
Mobility in Soil:	No data available.			
Known or predicted distribut	tion to environmental compartments			
Octamethylcyclotetrasiloxa ne	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. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container.			
14. Transport information				
This material is not subject to transpo	ort regulations.			
Environmental hazards:	Not regulated.			
Special precautions for user:	Packaging with a breathing/venting bung are FORBIDDEN for transport by			

# 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.

air.





# 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**

hazaru categories					
Acute (Immediate)	X Chronic (Delayed)	Fire	Х	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					
<b>US. California Pro</b> No ingredie	position 65 nt regulated by CA Prop 6	65 present	t.		
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:

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
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

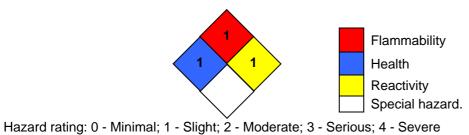
## **HMIS Hazard ID**

Health	*	1	E
Flammability		1	
Physical Hazards		1	
PERSONAL PROTECTION		В	
			-

B - Safety Glasses & Gloves

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

## **NFPA Hazard ID**



Issue Date:	05/21/2015
Revision Date:	No data available.
Version #:	7.0
Further Information:	No data available.
SDS_US	Distributed By Freeman Manufacturing & Supply Co. FREEMAN www.freemansupply.com 800-321-8511

**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 CA-45 FC

# Other means of identification

Synonyms: RHODORSIL CA-45 FC

#### Recommended use and restriction on use

Recommended use: Catalyst Restrictions on use: None known.

## Manufacturer/Importer/Supplier/Distributor Information

## Manufacturer

Company Name:	Bluestar 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@bluestarsilicones.com

#### Supplier

Company Name:	Bluestar Silicones USA Corp.
Address:	Two Tower Blvd, Suite 1601
	08816-1100 East Brunswick, NJ
Telephone:	+1 (732) 227-2060
Fax:	+1 (732) 249-7000
Contact Person:	
e-mail:	product.stewardship@bluestarsilicones.com

## 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.



Precautionary Statement	
Prevention:	Use personal protective equipment as required.
Response:	If exposed or concerned: Get medical advice/attention.
Storage:	Store in 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:	Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to Section 10: "Stability and Reactivity".

# 3. Composition/information on ingredients

## **Mixtures**

**Composition Comments:** 

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
Octamethylcyclotetrasiloxane	D4,	556-67-2	0.1 - 1%
* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.			

Mixture of Polyorganosiloxanes, fillers.

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:	Remove contaminated clothing and shoes. Immediately wipe excess material off skin with a dry cloth; then wash skin with plenty of soap and water. Seek medical attention if irritation develops or persists.
Eye contact:	In case of contact, immediately absorb excess with clean absorbent cloth or cotton. Then, hold eyelids open and flush with a steady, gentle stream of water for at least 15 minutes. Seek medical attention if irritation develops or persists or if visual changes occur.

# Most important symptoms/effects, acute and delayed

Symptoms:	None known.

Hazards: N	No specific recommendations.
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## Indication of immediate medical attention and special treatment needed

-	Treatment:

No specific recommendations.



# 5. Fire-fighting measures

General Fire Hazards:	Water spray should be used to cool containers.
Suitable (and unsuitable) extingu	ishing 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. Do not use alkaline powders.
Specific hazards arising from the chemical:	Product will burn under fire conditions. This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to Section 10: "Stability and Reactivity". Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.
Special protective equipment and	d precautions for firefighters
Special fire fighting procedures:	Water spray should be used to cool containers.
Special protective equipment for fire-fighters:	Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
6. Accidental release measures	5
Personal precautions, protective equipment and emergency procedures:	Wear appropriate personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment. Avoid contact with bases. Eliminate all sources of ignition.
Methods and material for containment and cleaning up:	Ventilate the area. Use only non-sparking tools. Absorb with inert material. Avoid contact with bases. Scrape up and place in appropriate vented container.
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.
Environmental Precautions:	Do not allow to enter drains, sewers or watercourses.
7. Handling and storage	
Precautions for safe handling:	Provide adequate ventilation if fumes or vapors are generated. Do not mix with incompatible materials. For further information, refer to Section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.
Conditions for safe storage, including any incompatibilities:	Store in original vented container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures.

# 8. Exposure controls/personal protection

## **Control Parameters**

**Occupational Exposure Limits** 

None of the components have assigned exposure limits.





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 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:	Viscous.
Color:	Violet
Odor:	Slight odor
Odor threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	No data available.
International Inventories:	No data available.
Flash Point:	> 201 °F (94 °C)
Evaporation rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability limit - upper (%):	74 %(V) Hydrogen.
Flammability limit - lower (%):	4 %(V) Hydrogen.
Vapor pressure:	No data available.
Vapor density:	No data available.
Relative density:	1.04 (77 °F (25 °C))
Solubility(ies)	
Solubility in water:	Practically Insoluble
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	> 752 °F (400 °C)
Decomposition temperature:	No data available.
Viscosity:	400 - 800 mm2/s (77 °F (25 °C))



# 10. Stability and reactivity

Reactivity:	No data available.
Chemical Stability:	Material is stable under normal conditions.
Possibility of Hazardous Reactions:	This product may generate hydrogen gas.
Conditions to Avoid:	Avoid heat, sparks, open flames and other ignition sources.
Incompatible Materials:	A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with : Strong oxidizers, strong bases and chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.
Hazardous Decomposition Products:	Thermal decomposition may liberate dimethylcyclosiloxanes. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.

# 11. Toxicological information

Information on likely routes of ex Ingestion:	<b>xposure</b> No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Symptoms related to the physica Ingestion:	al, chemical and toxicological characteristics No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.
Information on toxicological effe	cts
Acute toxicity (list all possible routes of exposure)	
Oral Product:	No data available.
Dermal Product:	No data available.

Repeated Dose Toxicity SDS\_US



BLUESTAR SILICONES

Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	NOAEL (Rat, Inhalation, 24 months): 1.820 mg/l NOAEL (Rabbit, Dermal, 3 weeks): 960 mg/kg	
Skin Corrosion/Irritation Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasil oxane	(Rabbit, 24 h): Not irritating	
Serious Eye Damage/Eye Irritation Product: No data available.		
Specified substance(s): Octamethylcyclotetrasil oxane	(Rabbit, 24 h): Not irritating	
Respiratory or Skin Sensitizatio Product:	<b>n</b> No data available.	
Specified substance(s): Octamethylcyclotetrasil oxane	(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 P No carcinogenic component	rogram (NTP) Report on Carcinogens: s 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 ane	Bacteria: No mutagenic components identified Chromosomal aberration: No mutagenic components identified	
In vivo Product:	No data available.	
Specified substance(s): Octamethylcyclotetrasilox ane	(Rat)No mutagenic components identified	
Reproductive Toxicity Product:	No data available.	



Specific Target Organ Toxicity - Product:	Single Exposure No data available.
Specific Target Organ Toxicity - Product:	Repeated Exposure No data available.
Aspiration Hazard Product:	No data available.
Other Effects:	No data available.
12. Ecological information	
Ecotoxicity:	
Acute hazards to the aquatic e	environment:
Fish Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	LC 50 (Oncorhynchus mykiss, 96 h): >= 0.022 mg/l
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	EC 50 (Water flea (Daphnia magna), 48 h): > 0.015 mg/l
Chronic hazards to the aquation	c environment:
Fich	

Fish Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l
Aquatic Invertebrates Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	NOEC (Water flea (Daphnia magna), 21 d): 0.0079 mg/l
Toxicity to Aquatic Plants Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0.022 mg/l

# Persistence and Degradability



Biodegradation Product:	No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	3.7 % (29 d)
BOD/COD Ratio Product:	No data available.
Bioaccumulative Potential Bioconcentration Factor (BC Product:	<b>F)</b> No data available.
Specified substance(s): Octamethylcyclotetrasilox ane	Fathead Minnow, Bioconcentration Factor (BCF): 12,400
Partition Coefficient n-octanol / water (log Kow)	
Product:	No data available.
Mobility in Soil:	No data available.
Known or predicted distribut	tion to environmental compartments
Octamethylcyclotetrasiloxa ne	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. Waste of this material should not be mixed with other waste. Provide measures such as vented bungs to ensure pressure relief in the waste container.
14. Transport information	
This material is not subject to transpo	ort regulations.
Environmental hazards:	Not regulated.
Special precautions for user:	Packaging with a breathing/venting bung are FORBIDDEN for transport by

# 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.

air.





# 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**

nazaru categories		
Acute (Immediate) X Chronic (Delayed) Fire X 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		
<b>US. California Proposition 65</b> 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.		
<b>US. Massachusetts RTK - Substance List</b> 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.

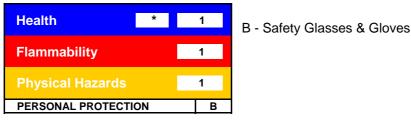


# **Inventory Status:**

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

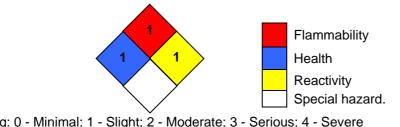
# 16.Other information, including date of preparation or last revision

# **HMIS Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*Chronic health effect

# **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Issue Date:** 

05/23/2015

**Revision Date:** 

No data available.

Version #: SDS\_US





## **Further Information:**

**Disclaimer:** 

No data available.

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.

