

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BLUESIL FLD 47V60 000

**Other means of identification**

**Synonyms:** RHODORSIL H 47V60000

**Additional identification:**

**Chemical name:** Siloxanes and Silicones, di-Me  
**CAS-No.:** 63148-62-9

**Recommended use and restriction on use**

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

**Manufacturer/Importer/Supplier/Distributor Information**

**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**

**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 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

#### Substances

#### General information:

**INDEX No.:**  
**CAS-No.:** 63148-62-9  
**EC No.:**  
**REACH Registration No.:**  
**Purity:**  
**Synonyms:**

#### Composition information of impurities and stabilizers

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.

### 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/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 (CO<sub>2</sub>).

**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 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**

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. See Section 8 of the MSDS 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 MSDS.

**Environmental Precautions:** Do not allow to enter drains, sewers or watercourses.

**7. Handling and storage**

**Precautions for safe handling:** See Section 8 of the MSDS 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**

None of the components have assigned exposure limits.

**Appropriate Engineering Controls**

No specific recommendations.

**Individual protection measures, such as personal protective equipment**

<b>General information:</b>	Provide sufficient ventilation during operations which cause vapor formation. This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air.
<b>Eye/face protection:</b>	Wear approved safety glasses.
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Protective gloves are recommended.
<b>Other:</b>	Wear suitable protective clothing.
<b>Respiratory Protection:</b>	No protection is ordinarily required under normal conditions of use and with adequate ventilation.
<b>Hygiene measures:</b>	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties****9.1 Information on basic physical and chemical properties:****Appearance**

<b>Physical state:</b>	Liquid
<b>Form:</b>	Viscous.
<b>Color:</b>	Colorless
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Melting point/freezing point:</b>	-49 °F (-45 °C) Approximate
<b>International Inventories:</b>	No data available.
<b>Flash Point:</b>	572 °F (300 °C) (Closed cup according to method Afnor T 60103.)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability limit - upper (%):</b>	No data available.
<b>Flammability limit - lower (%):</b>	No data available.
<b>Vapor pressure:</b>	< 0.1 hPa (68 °F (20 °C))
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.973 (68 °F (20 °C)) Approximate
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Slightly Soluble
<b>Solubility (other):</b>	Acetone.: Marginally Soluble Ethanol.: Marginally Soluble Diethylether.: Miscible (in all proportions). Chlorinated solvents.: Miscible (in all proportions). Aromatic hydrocarbons.: Miscible (in all proportions). Aliphatic hydrocarbons.: Miscible (in all proportions).
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	> 752 °F (400 °C)
<b>Decomposition temperature:</b>	> 392 °F (200 °C)

**Viscosity:** 60,000 mm<sup>2</sup>/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:** 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 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:** LD 50 (Rat): > 5,000 mg/kg

##### Dermal

**Product:** LD 50 (Rat): > 2,000 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, 24 months): 1.820 mg/l  
NOAEL (Rabbit, Dermal, 3 weeks): 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:** 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):**Octamethylcyclotetrasiloxane  
Bacteria: No mutagenic components identified  
Chromosomal aberration: No mutagenic components identified**In vivo****Product:** No data available.**Specified substance(s):**Octamethylcyclotetrasiloxane  
(Rat)No mutagenic components identified**Reproductive Toxicity****Product:** No data available.

**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.**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):  $\geq 0.022$  mg/l**Aquatic Invertebrates****Product:** No data available.**Specified substance(s):**Octamethylcyclotetrasiloxane EC 50 (Water flea (Daphnia magna), 48 h):  $> 0.015$  mg/l**Chronic hazards to the aquatic environment:****Fish****Product:** No data available.**Specified substance(s):**Octamethylcyclotetrasiloxane NOEC (Oncorhynchus mykiss, 93 d):  $\geq 0.0044$  mg/l**Aquatic Invertebrates****Product:** No data available.**Specified substance(s):**Octamethylcyclotetrasiloxane NOEC (Water flea (Daphnia magna), 21 d):  $0.0079$  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 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.**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**

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
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
Canada NDSL Inventory:	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**

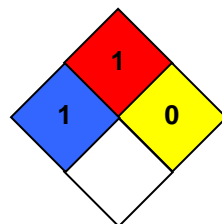
**HMIS Hazard ID**

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

B - Safety Glasses & Gloves

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

**NFPA Hazard ID**



	Flammability
	Health
	Reactivity
	Special hazard.

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

**Issue Date:** 05/24/2015

**Revision Date:** No data available.

**Version #:** 9.0

**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.