

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BLUESIL V-09 C

### Other means of identification

**Synonyms:** RHODORSIL V-09C

### 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 2

#### Health Hazards

Acute toxicity (Inhalation - vapor) Category 3  
Serious eye irritation Category 2A  
Respiratory sensitizer Category 1  
Toxic to reproduction Category 1B  
Specific Target Organ Toxicity -  
Single Exposure Category 1  
Specific Target Organ Toxicity -  
Repeated Exposure Category 1

#### Environmental Hazards

Acute hazards to the aquatic  
environment Category 3

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Highly flammable liquid and vapor.  
Toxic if inhaled.  
Causes serious eye irritation.  
May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
May damage fertility or the unborn child.  
Causes damage to organs.  
May cause drowsiness or dizziness.  
May cause respiratory irritation.  
Causes damage to organs through prolonged or repeated exposure.  
Harmful to aquatic life.

**Precautionary Statements**

**Prevention:** Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Avoid breathing vapors. Wear eye protection. Avoid release to the environment.

**Response:** IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.

**Storage:** Store in tightly closed original container in a dry, cool and well-ventilated place.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Other hazards which do not result in GHS classification:** No data available.

**3. Composition/information on ingredients**

**Mixtures**

Chemical Identity	CAS number	Content in percent (%)*
Methanol	67-56-1	85 - 95%
Ethanol	64-17-5	1 - 5%

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

**Composition Comments:** Mixture

#### 4. First-aid measures

<b>General information:</b>	For further information refer to section 8 "Exposure-controls/personal protection".
<b>Ingestion:</b>	Do not induce vomiting. Rinse mouth thoroughly. Get medical attention if symptoms occur.
<b>Inhalation:</b>	Move into fresh air and keep at rest. Get medical attention if symptoms occur.
<b>Skin Contact:</b>	Wash contact areas with soap and water. Get medical attention promptly if symptoms occur after washing.
<b>Eye contact:</b>	In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

#### Most important symptoms/effects, acute and delayed

<b>Symptoms:</b>	None known.
<b>Hazards:</b>	No specific recommendations.

#### Indication of immediate medical attention and special treatment needed

<b>Treatment:</b>	No specific recommendations.
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#### 5. Fire-fighting measures

<b>General Fire Hazards:</b>	Vapors may travel considerable distance to a source of ignition and flash back. Containers may explode (due to the build-up of pressure) when exposed to extreme heat.
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#### Suitable (and unsuitable) extinguishing media

<b>Suitable extinguishing media:</b>	Extinguish with foam, carbon dioxide or dry powder.
<b>Unsuitable extinguishing media:</b>	Do not use water jet as an extinguisher, as this will spread the fire.

<b>Specific hazards arising from the chemical:</b>	Flammable. Hazardous Decomposition Products : oxides of carbon.
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#### Special protective equipment and precautions for firefighters

<b>Special fire fighting procedures:</b>	Water spray should be used to cool containers.
<b>Special protective equipment for fire-fighters:</b>	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:** Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Do not breathe vapor. Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

**Methods and material for containment and cleaning up:** Use non-sparking tools. Absorb with sand or other inert absorbent and place into containers. For waste disposal, see Section 13 of the SDS.

**Notification Procedures:** For waste disposal, see Section 13 of the SDS.

**Environmental Precautions:** Collect spillage. Do not allow to enter drains, sewers or watercourses. Spills may be reportable to the National Response Center (800-424-8802). and to state and/or local agencies.

**7. Handling and storage**

**Precautions for safe handling:** Use explosion-proof [electrical/ventilating/lighting/...] equipment. Ground container and transfer equipment to eliminate static electric sparks. Use only with adequate ventilation. Avoid forming spray/aerosol mists. See Section 8 of the SDS for Personal Protective Equipment.

**Conditions for safe storage, including any incompatibilities:** Avoid heat, sparks, open flames and other ignition sources. Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Nitrogen blanketing of containers is recommended.

**8. Exposure controls/personal protection**

**Control Parameters**

**Occupational Exposure Limits**

Chemical Identity	Type	Exposure Limit Values	Source
Methanol	STEL	250 ppm	US. ACGIH Threshold Limit Values (01 2010)
	TWA	200 ppm	US. ACGIH Threshold Limit Values (01 2010)
	STEL	250 ppm 325 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	REL	200 ppm 260 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)
	PEL	200 ppm 260 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	STEL	250 ppm 325 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	TWA	200 ppm 260 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	STEL	1,000 ppm	US. ACGIH Threshold Limit Values (01 2010)
Ethanol	PEL	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)
	TWA	1,000 ppm 1,900 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)

**Biological Limit Values**

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

**Appropriate Engineering Controls** Use explosion-proof ventilation equipment.

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

<b>General information:</b>	Provide sufficient ventilation during operations which cause vapor formation.
<b>Eye/face protection:</b>	Wear safety glasses with side shields (or goggles).
<b>Skin Protection</b>	
<b>Hand Protection:</b>	Protective gloves are recommended.
<b>Other:</b>	Wear appropriate clothing to prevent any possibility of skin contact.
<b>Respiratory Protection:</b>	If ventilation is insufficient, suitable respiratory protection must be provided. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to fumes at levels exceeding the exposure limits.
<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>	Mobile
<b>Color:</b>	Colorless
<b>Odor:</b>	Slight odor
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable.
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	> 147 °F (64 °C)
<b>Flash Point:</b>	< 50 °F (10 °C) (Tagliabue Closed Cup)
<b>Evaporation rate:</b>	3.6 butyl acetate=1
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability limit - upper (%):</b>	36 %(V) Methanol.
<b>Flammability limit - lower (%):</b>	3.3 %(V) Methanol.
<b>Vapor pressure:</b>	< 129 hPa (59 °F (15 °C))
<b>Vapor density:</b>	No data available.
<b>Relative density:</b>	0.82
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Soluble
<b>Solubility (other):</b>	No data available.
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Auto-ignition temperature:</b>	No data available.
<b>Decomposition temperature:</b>	No data available.
<b>Viscosity:</b>	No data available.

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
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<b>Chemical Stability:</b>	Stable.
<b>Possibility of hazardous reactions:</b>	Will not occur.
<b>Conditions to avoid:</b>	Avoid heat, sparks, open flames and other ignition sources.
<b>Incompatible Materials:</b>	Strong oxidizing agents.
<b>Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

## 11. Toxicological information

### Information on likely routes of exposure

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Ingestion:</b>	No data available.
<b>Inhalation:</b>	No data available.
<b>Skin Contact:</b>	No data available.
<b>Eye contact:</b>	No data available.

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

<b>Oral Product:</b>	ATEmix : 500 mg/kg
<b>Dermal Product:</b>	No data available.
<b>Inhalation Product:</b>	No data available.

<b>Repeated dose toxicity Product:</b>	No data available.
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<b>Specified substance(s):</b> Methanol	LOAEL (Rat(Female, Male), Inhalation - vapor): 1.3 mg/l
<b>Specified substance(s):</b> Ethanol	NOAEL (Mouse(Female), in Water): > 9,400 mg/kg NOAEL (Rat, Inhalation - vapor): > 20 mg/l

### Skin Corrosion/Irritation

**Product:** No data available.  
**Specified substance(s):**  
Ethanol Draize test (Human): Not irritating

### Serious Eye Damage/Eye Irritation

**Product:** No data available.  
**Specified substance(s):**  
Methanol (Rabbit): Not irritating  
**Specified substance(s):**  
Ethanol OECD 405 (Rabbit): Irritant.

### Respiratory or Skin Sensitization

**Product:** No data available.  
**Specified substance(s):**  
Methanol , According to a standardised method. (Guinea Pig)Not a skin sensitizer.

### Carcinogenicity

**Product:** No data available.

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

Ethanol

#### US. National Toxicology Program (NTP) Report on Carcinogens:

Ethanol 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.  
**Specified substance(s):**  
Methanol Bacteria (OECD 471): No mutagenic effects.  
In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic effects.  
**Specified substance(s):**  
Ethanol Bacteria (OECD 471): No mutagenic effects.  
(OECD 476)No mutagenic effects.

#### In vivo

**Product:** No data available.  
**Specified substance(s):**  
Methanol (Expert judgement.) (Mouse)No mutagenic effects.

### Reproductive toxicity

**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**

**Product:** No data available.  
**Specified substance(s):**  
 Methanol Central nervous system. - Causes damage to organs.  
**Specified substance(s):**  
 Ethanol Not classified

**Specific Target Organ Toxicity - Repeated Exposure**

**Product:** No data available.  
**Specified substance(s):**  
 Ethanol Not classified

**Aspiration Hazard**

**Product:** No data available.

**Other effects:** No data available.

<b>12. Ecological information</b>
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**Ecotoxicity:**

**Acute hazards to the aquatic environment:**

**Fish**

**Product:** No data available.  
**Specified substance(s):**  
 Methanol LC 50 (Bluegill Sunfish, 96 h): 15,400 mg/l  
 Ethanol LC 50 (Pimephales promelas, 96 h): 14,200 mg/l

**Aquatic Invertebrates**

**Product:** No data available.  
**Specified substance(s):**  
 Methanol EC 50 (Water flea (Daphnia magna), 48 h): 18,260 mg/l  
 Ethanol LC 50 (Water flea (Ceriodaphnia dubia), 48 h): 5,012 mg/l

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.  
**Specified substance(s):**  
 Methanol NOEC (Fish, 28 d): 446.7 mg/l

**Aquatic Invertebrates**

**Product:** No data available.  
**Specified substance(s):**  
 Methanol NOEC (Aquatic invertebrates, 21 d): 208 mg/l  
 Ethanol NOEC (Water flea (Daphnia magna), 10 d): 9.6 mg/l

**Toxicity to Aquatic Plants**

**Product:** No data available.



<b>Specified substance(s):</b>	
Methanol	EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): 22,000 mg/l
Ethanol	EC 50 (Green algae (Chlorella vulgaris), 72 h): 275 mg/l EC10 (Green algae (Chlorella vulgaris), 72 h): 11.5 mg/l

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

Methanol	95 % (20 d) Readily biodegradable
Ethanol	74 % (5 d) Readily biodegradable

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**

**Bioconcentration Factor (BCF)**

**Product:** No data available.

**Specified substance(s):**

Methanol (Expert judgement.) The product is not considered to have a bioaccumulative potential.

**Partition Coefficient n-octanol / water (log Kow)**

**Product:** No data available.

**Specified substance(s):**

Methanol	Log Kow: -0.77
Ethanol	Log Kow: -0.35 24 °C (OECD 107) at pH 7.4

**Mobility in soil:** No data available.

**Known or predicted distribution to environmental compartments**

Methanol	No data available.
Ethanol	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. Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be regulated due to ignitability. Contaminated packages should be as empty as possible.

RCRA Information

**Waste code:** EPA RCRA HAZARDOUS WASTE CODE: D001

**14. Transport information****DOT**

UN Number:	UN 1230
UN Proper Shipping Name:	METHANOL MIXTURE
Transport Hazard Class(es)	
Class:	3
Label(s):	3, 6.1
Packing Group:	II
Marine Pollutant:	Not a Marine Pollutant
Special precautions for user:	–

**IMDG**

UN Number:	UN 1230
UN Proper Shipping Name:	METHANOL MIXTURE
Transport Hazard Class(es)	
Class:	3
Label(s):	3, 6.1
EmS No.:	F-E,, S-D
Packing Group:	II
Marine Pollutant:	Not a Marine Pollutant
Limited quantity	
Excepted quantity	
Special precautions for user:	–

**IATA**

UN Number:	UN 1230
Proper Shipping Name:	METHANOL MIXTURE
Transport Hazard Class(es):	
Class:	3
Label(s):	3, 6.1
Marine Pollutant:	No other information noted.
Packing Group:	II
Limited quantity	
Excepted quantity	
Special precautions for user:	–
Other information	
Passenger and cargo aircraft:	Allowed.
Cargo aircraft only:	Allowed.

**Environmental hazards:** Not a Marine Pollutant

**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):**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methanol	lbs. 5000
Ethanol	lbs. 100

**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**

<u>Chemical Identity</u>	<u>Reportable quantity</u>
Methanol	lbs. 5000
Ethanol	lbs. 100

**SARA 313 (TRI Reporting)**

<u>Chemical Identity</u>	<u>Reporting threshold for other users</u>	<u>Reporting threshold for manufacturing and processing</u>
Methanol		

**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.

Ethanol	Carcinogenic.
Ethanol	Developmental toxin.

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

<u>Chemical Identity</u>
Methanol
Ethanol

**US. Massachusetts RTK - Substance List**

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

**US. Pennsylvania RTK - Hazardous Substances**

<u>Chemical Identity</u>
Methanol
Ethanol

**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.
Japan (ENCS) List:	On or in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory.
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory.
Australia AICS:	On or in compliance with the inventory.
Philippines PICCS:	On or in compliance with the inventory.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory.

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

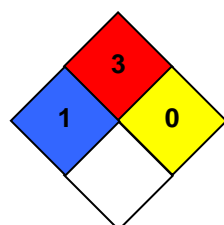
**HMIS Hazard ID**

<b>Health</b>	* 2
<b>Flammability</b>	3
<b>Physical Hazards</b>	0
<b>PERSONAL PROTECTION</b>	H

H - Goggles, Gloves, Apron & Vapor Respirator

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

**NFPA Hazard ID**



	Flammability
	Health
	Reactivity
	Special hazard.

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

**Issue Date:** 02/28/2018

**Revision Date:** No data available.

**Version #:** 11.0  
SDS\_US

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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.