

# SAFETY DATA SHEET

## 1. Identification

**Product identifier:** BLUESIL V-06 CLEAR

### 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

Skin irritation Category 2  
Serious eye damage Category 1  
Toxic to reproduction Category 1B  
Specific Target Organ Toxicity -  
Single Exposure Category 3  
Aspiration Hazard 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.  
Causes skin irritation.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
May be fatal if swallowed and enters airways.  
May damage fertility or the unborn child.  
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 protective gloves/protective clothing/eye protection/face protection. Avoid release to the environment.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Get immediate medical advice/attention. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Get immediate 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 (%)*
Solvent naphtha (petroleum), light aliph.	64742-89-8	85 - <95%
Tetrakis(2-methoxyethyl) orthosilicate	2157-45-1	1 - <10%
Titanium tetrabutanolatate	5593-70-4	1 - <5%
2-Methoxyethanol	109-86-4	0.1 - <1%

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

**Composition Comments:** Solution of organosiloxanes, 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 immediately.

**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 promptly if symptoms occur after washing.

**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes. Get medical attention promptly if symptoms occur after washing.

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

**Symptoms:** None known.

**Hazards:** Any material aspirated during vomiting may cause severe lung injury.

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

**Treatment:** Treat appropriately, avoid vomiting and normal rinse of stomach.

#### 5. Fire-fighting measures

**General Fire Hazards:** 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.

#### 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:** Flammable. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

#### 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:** 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
Solvent naphtha (petroleum), light aliph.	REL	100 ppm 400 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)
	TWA	100 ppm 400 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)
	PEL	100 ppm 400 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (03 2016)

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

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

**General information:** Provide sufficient ventilation during operations which cause vapor formation.

**Eye/face protection:** Wear goggles/face shield.

**Skin Protection**

**Hand Protection:** Protective gloves are recommended.

**Other:** Wear appropriate clothing to prevent any possibility of skin contact.

**Respiratory Protection:** If ventilation is insufficient, suitable respiratory protection must be provided.

**Hygiene measures:** Provide eyewash station and safety shower. 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>	Petroleum
<b>Odor threshold:</b>	No data available.
<b>pH:</b>	Not applicable
<b>Freezing point:</b>	No data available.
<b>Boiling Point:</b>	> 239 °F (115 °C)
<b>Flash Point:</b>	68.7 °F (20.4 °C) (Tagliabue Open Cup)
<b>Evaporation rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability limit - upper (%):</b>	7.6 %(V) Petroleum distillate.
<b>Flammability limit - lower (%):</b>	1.4 %(V) Petroleum distillate.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density:</b>	No data available.
<b>Density:</b>	Approximate 0.77 kg/dm <sup>3</sup> (68 °F (20 °C))
<b>Solubility(ies)</b>	
<b>Solubility in water:</b>	Insoluble
<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>	1 - 10 mm <sup>2</sup> /s

## 10. Stability and reactivity

<b>Reactivity:</b>	No data available.
<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

**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:** No data available.

##### Inhalation

**Product:** No data available.

#### Repeated dose toxicity

**Product:** No data available.

##### Specified substance(s):

Titanium tetrabutanolate  
NOAEL (Rat(Female, Male), Oral): 125 mg/kg Results obtained on a similar product. Gavage (Oral) Subchronic exposure  
NOAEL (Rat(Female, Male), Inhalation - vapor): 2.35 mg/l Results obtained on a similar product. Subchronic exposure

#### Skin Corrosion/Irritation

**Product:** No data available.

#### Serious Eye Damage/Eye Irritation

**Product:** No data available.

##### Specified substance(s):

Titanium tetrabutanolate  
Expert judgement (Rabbit): Causes serious eye damage.

#### Respiratory or Skin Sensitization

**Product:** No data available.

### 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):**

Titanium tetrabutanolate

Bacteria (OECD 471): No mutagenic effects. with and without metabolic activation

Chromosomal aberration (OECD 473): No clastogenic effect. with and without metabolic activation

In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic effects. with and without metabolic activation

**In vivo**

**Product:** No data available.

### Reproductive toxicity

**Product:** No data available.

**Specified substance(s):**

2-Methoxyethanol

May cause adverse reproductive effects - such as birth defects, miscarriages, or infertility based on animal data.

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

**Specified substance(s):**

Titanium tetrabutanolate

Oral: Central nervous system. - May cause drowsiness or dizziness.

Inhalation: Respiratory system - May cause respiratory irritation.

### 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):**

Titanium tetrabutanolate LC 50 (Pimephales promelas, 96 h): 1,910 mg/l Results obtained on a similar product.

2-Methoxyethanol LC 50 (Carp (Leuciscus idus melanotus), 48 h): > 10,000 mg/l Mortality  
LC 50 (Inland silverside (Menidia beryllina), 96 h): > 10,000 mg/l Mortality  
LC 50 (Bluegill (Lepomis macrochirus), 96 h): > 10,000 mg/l Mortality  
LC 50 (Rainbow trout,donaldson trout (Oncorhynchus mykiss), 96 h): 14,000 - 18,000 mg/l Mortality  
LC 50 (Goldfish (Carassius auratus), 24 h): > 5,000 mg/l Mortality

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Titanium tetrabutanolate EC 50 (Water flea (Daphnia magna), 48 h): 590 mg/l Results obtained on a similar product.

2-Methoxyethanol LC 50 (Water flea (Daphnia magna), 24 h): > 10,000 mg/l Mortality  
LC 50 (Brine shrimp (Artemia salina), 24 h): > 10,000 mg/l Mortality

**Chronic hazards to the aquatic environment:**

**Fish**

**Product:** No data available.

**Aquatic Invertebrates**

**Product:** No data available.

**Specified substance(s):**

Titanium tetrabutanolate NOEC (Water flea (Daphnia magna), 21 d): 4 mg/l Results obtained on a similar product.

**Toxicity to Aquatic Plants**

**Product:** No data available.

**Specified substance(s):**

Titanium tetrabutanolate EC 50 (Green algae (Scenedesmus subspicatus), 72 h): > 820 mg/l Results obtained on a similar product.  
NOEC (growth rate) (Green algae (Scenedesmus subspicatus), 72 h): 201 mg/l Results obtained on a similar product.

**Persistence and Degradability**

**Biodegradation**

**Product:** No data available.

**Specified substance(s):**

Titanium tetrabutanolate 92 % (20 d, According to a standardised method.) Readily biodegradable Results obtained on a similar product.

**BOD/COD Ratio**

**Product:** No data available.

**Bioaccumulative potential**



**Bioconcentration Factor (BCF)**

**Product:** No data available.

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

**Product:** No data available.

**Specified substance(s):**

Titanium tetrabutanolate Log Kow: 0.88 20 °C Results obtained on a similar product.

2-Methoxyethanol Log Kow: -0.77

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

**Known or predicted distribution to environmental compartments**

Solvent naphtha (petroleum), light aliph. No data available.

Tetrakis(2-methoxyethyl) orthosilicate No data available.

Titanium tetrabutanolate No data available.

2-Methoxyethanol 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 1268  
UN Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S., MIXTURE  
Transport Hazard Class(es):  
Class: 3  
Label(s): 3  
Packing Group: III  
Marine Pollutant: Not a Marine Pollutant  
Special precautions for user: -

**IMDG**

UN Number: UN 1268  
UN Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S., MIXTURE  
Transport Hazard Class(es)  
Class: 3  
Label(s): 3  
EmS No.: F-E, S-E  
Packing Group: III  
Marine Pollutant: Not a Marine Pollutant  
Limited quantity  
Excepted quantity  
Special precautions for user: –

**IATA**

UN Number: UN 1268  
Proper Shipping Name: PETROLEUM DISTILLATES, N.O.S., MIXTURE  
Transport Hazard Class(es):  
Class: 3  
Label(s): 3  
Marine Pollutant: Not a Marine Pollutant  
Packing Group: III  
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):**  
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**



This product can expose you to chemicals including

2-Methoxyethanol which is [are] known to the State of California to cause birth defects or other reproductive harm.  
For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

**Chemical Identity**

Solvent naphtha (petroleum), light aliph.

**US. Massachusetts RTK - Substance List**

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

**US. Pennsylvania RTK - Hazardous Substances**

**Chemical Identity**

Solvent naphtha (petroleum), light aliph.

**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.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.

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

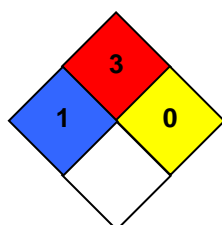
**HMIS Hazard ID**

<b>Health</b>	* 3
<b>Flammability</b>	2
<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:** 05/09/2019

**Revision Date:** 11/09/2009

**Version #:** 13.1

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.