

SAFETY DATA SHEET

1. Identification

Product identifier: BLUESIL FLD 621V20

Additional identification:

Chemical name: alpha,omega-divinylpolydimethylsiloxane
CAS-No.: 68083-19-2

Recommended use and restriction on use

Recommended use: Manufacturing intermediates.
Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Elkem Silicones France SAS
Address: 1-55 rue des Frères PERRET
F-69 192 SAINT FONTS Cedex
Telephone: +33 (0) 4 72 73 74 75
Fax: +33 (0) 4 72 73 75 99
Contact Person:
E-mail: fds.sil@elkem.com

Supplier

Company Name: Elkem Silicones USA Corp.
Address: Two Tower Blvd, Suite 1601
08816-1100 East Brunswick, NJ
Telephone: +1 (732) 227-2060
Fax: +1 (732) 249-7000

Emergency telephone number: +1 (800) 424-9300 CHEMTREC

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 4

Health Hazards

Toxic to reproduction Category 2

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Combustible liquid.
Suspected of damaging fertility.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use personal protective equipment as required.

Response: IF exposed or concerned: Get medical advice/attention. Fight fire with normal precautions from a reasonable distance.

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

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

3. Composition/information on ingredients

Substances

General information:

INDEX No.:
CAS-No.: 68083-19-2
EC No.:
REACH Registration No.:
Purity:
Synonyms:

Composition information of impurities and stabilizers

Chemical Identity	CAS number	Content in percent (%)*
Octamethylcyclotetrasiloxane	556-67-2	3 - <5%

* 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: Wash skin thoroughly with soap and water. Get medical attention if symptoms occur after washing.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.
Hazards: No specific recommendations.

Indication of immediate medical attention and special treatment needed

Treatment: No specific recommendations.

5. Fire-fighting measures

General Fire Hazards: No specific recommendations.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: Product will burn under fire conditions. Hazardous Decomposition Products : formaldehyde, oxides of carbon and silica.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: Water spray should be used to cool containers.

Special protective equipment for fire-fighters: Firefighters should wear standard protective equipment and a positive pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up: Absorb with sand or other inert absorbent and place into containers.

Notification Procedures: Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

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

7. Handling and storage

Precautions for safe handling: See Section 8 of the SDS for Personal Protective Equipment. For further information, refer to section 10: "Stability and Reactivity".

Conditions for safe storage, including any incompatibilities: Store in tightly closed original container in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	TWA	10 ppm	US. OARS. WEELs Workplace Environmental Exposure Level Guide

Appropriate Engineering Controls No specific recommendations.

Individual protection measures, such as personal protective equipment

- General information:** Provide sufficient ventilation during operations which cause vapor formation.
- Eye/face protection:** Safety Glasses.
- Skin Protection**
- Hand Protection:** Protective gloves are recommended.
- Other:** Wear suitable protective clothing.
- Respiratory Protection:** If ventilation is insufficient, suitable respiratory protection must be provided.
- 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:** Slightly viscous
- Color:** Colorless
- Odor:** Faint
- Odor threshold:** No data available.
- pH:** Not applicable
- Freezing point:** No data available.
- Boiling Point:** No data available.
- Flash Point:** 185 °F (85 °C) (Closed cup according to method Afnor T 60103.)
- 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:** < 1 hPa (68 °F (20 °C))
- Vapor density:** No data available.
- Density:** Approximate 0.95 kg/dm³ (68 °F (20 °C))
- Solubility(ies)**
- Solubility in water:** Very slightly soluble
- Solubility (other):** Acetone: Miscible (in all proportions).
Diethylether: Miscible (in all proportions).

	Aromatic hydrocarbons: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions).
Partition coefficient (n-octanol/water):	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	> 392 °F (200 °C)
Viscosity:	Approximate 20 mm ² /s (77 °F (25 °C))
Other information	
Oxidizing properties:	According to the data on the components (evaluation by structure-activity relationship) Not considered as oxidizing.

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 oxidizing agents.
Hazardous Decomposition Products:	This product can form formaldehyde vapors when heated to temperatures above 150 degrees C in the presence of air. Thermal decomposition or combustion may liberate carbon oxides, other toxic gases or vapors and amorphous silica.

11. Toxicological information

Information on likely routes of exposure

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion:	No data available.
Inhalation:	No data available.
Skin Contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product:	No data available.
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Dermal

Product: No data available.

Inhalation

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane LC 50 (Rat, 4 h): 36 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane
NOAEL (Rat, Inhalation): 1.820 mg/l
NOAEL (Rabbit, Dermal): 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: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane (Guinea Pig)Not a skin sensitizer.

Carcinogenicity

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane No effects expected.

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 vitro gene mutations test on mammalian cells: No mutagenic components identified.

In vivo

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane (Rat) No effects expected.

Reproductive toxicity

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane Suspected of damaging fertility.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasiloxane No effects expected.

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): ≥ 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

ane

Chronic hazards to the aquatic environment:**Fish****Product:** No data available.**Specified substance(s):**Octamethylcyclotetrasiloxane NOEC (Oncorhynchus mykiss, 93 d): ≥ 0.0044 mg/l**Aquatic Invertebrates****Product:** No data available.**Specified substance(s):**

Octamethylcyclotetrasiloxane NOEC (Water flea (Daphnia magna), 21 d): 0.015 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:** No data available.**Specified substance(s):**

Octamethylcyclotetrasiloxane 3.7 % (29 d) The product is not considered to be readily biodegradable.

BOD/COD Ratio**Product:** No data available.**Bioaccumulative potential****Bioconcentration Factor (BCF)****Product:** No data available.**Specified substance(s):**

Octamethylcyclotetrasiloxane 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 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. Contaminated packages should be as empty as possible.

14. Transport information

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: If this material is packaged in containers > 119 gallons, it will be regulated for shipping by DOT and TDG. Shipping name : NA 1993 COMBUSTIBLE LIQUID, N.O.S. (OCTAMETHYLCYCLOTETRASILOXANE), 3, III

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

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

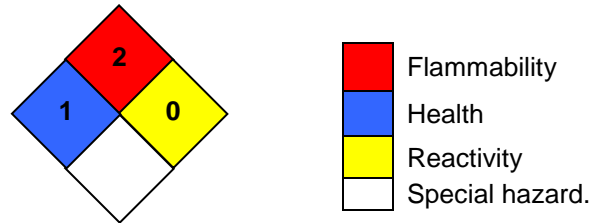
HMIS Hazard ID

Health	*	1
Flammability		2
Physical Hazards		0
PERSONAL PROTECTION		B

B - Safety Glasses & Gloves

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

NFPA Hazard ID



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

Issue Date: 05/21/2019

Revision Date: No data available.

Version #: 2.0

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.