

SAFETY DATA SHEET

1. Identification

Product identifier: BLUESIL V-612 B

Recommended use and restriction on use

Recommended use: Used for making joints, sealing and gluing.

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

Health Hazards

Toxic to reproduction

Category 2

Label Elements

Hazard Symbol:



Signal Word: Warning

Hazard Statement: Suspected of damaging fertility or the unborn child.
Quartz and Carbon Black :
When encapsulated in a polymer, are not expected to pose a health hazard when processed under normal conditions of use.

Precautionary

Statements**Prevention:** Use personal protective equipment as required.**Response:** IF exposed or concerned: Get medical advice/attention.**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 | CAS number | Content in percent (%)* |
|------------------------------|------------|-------------------------|
| Toluene | 108-88-3 | 0.1 - 1% |
| Octamethylcyclotetrasiloxane | 556-67-2 | 0.1 - 1% |

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

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:** Wash contact areas 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. Continue to rinse 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

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| Suitable extinguishing media: | Dry chemical, alcohol resistant foam or carbon dioxide (CO ₂). |
| 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: | 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

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| 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

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| Personal precautions, protective equipment and emergency procedures: | Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Avoid contact with alkalis and caustic products. Eliminate all sources of ignition. |
| Methods and material for containment and cleaning up: | Avoid contact with alkalis and caustic products. Use non-sparking tools. Absorb with sand or other inert absorbent. Scrape up and place in appropriate vented container. |
| Notification Procedures: | Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS. |
| Environmental Precautions: | Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Mechanically ventilate the spillage area to prevent the formation of explosive concentrations. |

7. Handling and storage

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| Precautions for safe handling: | Provide sufficient ventilation during operations which cause vapor formation. 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

Quartz and Carbon Black : When encapsulated in a polymer, are 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.

Eye/face protection: 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

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|---|---|
| Physical state: | Liquid |
| Form: | Paste |
| Color: | Black |
| Odor: | Odorless |
| Odor threshold: | No data available. |
| pH: | Not applicable. |
| Freezing point: | No data available. |
| Boiling Point: | 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: | 1.1 (68 °F (20 °C)) Approximate |
| Solubility(ies) | |
| Solubility in water: | Insoluble |
| Solubility (other): | Acetone: Very slightly soluble. Ethanol: Very slightly soluble. Diethylether: Miscible (in all proportions). Aliphatic hydrocarbons: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions). Chlorinated solvents: Miscible (in all proportions). |
| Partition coefficient (n-octanol/water): | No data available. |
| Auto-ignition temperature: | 932 °F (500 °C) Hydrogen. |

Decomposition temperature: No data available.
Viscosity: No data available.

Other information

Oxidizing properties: According to the data on the components Not considered as oxidizing. (according to EC criteria)

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: No other information noted.

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: 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.
Quantity of hydrogen potentially released (l/kg of product): < 40

11. Toxicological information

Information on likely routes of exposure

Ingestion: No effects expected (assessment based on ingredients).

Inhalation: No effects expected (assessment based on ingredients).

Skin Contact: No effects expected (assessment based on ingredients).

Eye contact: No effects expected (assessment based on ingredients).

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 effects expected (assessment based on ingredients).

Skin Corrosion/Irritation
Product: No effects expected (assessment based on ingredients).

Serious Eye Damage/Eye Irritation
Product: No effects expected (assessment based on ingredients).

Respiratory or Skin Sensitization
Product: No effects expected (assessment based on ingredients).

Carcinogenicity
Product: No data available.
Specified substance(s):
Toluene Not classified
Specified substance(s):
Octamethylcyclotetrasiloxane No effects expected.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Quartz (SiO₂) Overall evaluation: Carcinogenic to humans.
Carbon black

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 effects expected (assessment based on ingredients).

In vivo
Product: No effects expected (assessment based on ingredients).

Reproductive toxicity
Product: No data available.

Specified substance(s):
Toluene Suspected of damaging the unborn child.

Specified substance(s):
Octamethylcyclotetrasiloxane Suspected of damaging fertility.

Specific Target Organ Toxicity - Single Exposure

Product: No effects expected (assessment based on ingredients).

Specific Target Organ Toxicity - Repeated Exposure

Product: No effects expected (assessment based on ingredients).

Aspiration Hazard

Product: No effects expected (assessment based on ingredients).

Other effects: None known.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No effects expected (assessment based on ingredients).

Aquatic Invertebrates

Product: No effects expected (assessment based on ingredients).

Chronic hazards to the aquatic environment:

Fish

Product: No effects expected (assessment based on ingredients).

Aquatic Invertebrates

Product: No effects expected (assessment based on ingredients).

Toxicity to Aquatic Plants

Product: No effects expected (assessment based on ingredients).

Persistence and Degradability

Biodegradation

Product: Not applicable.
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.

Specified substance(s):

Toluene Log Kow: 2.73

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Toluene No data available.
Octamethylcyclotetrasiloxane No data available.

Other adverse effects: None known.

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. Contaminated packages should be as empty as possible and equipped with a degassing device.

14. Transport information

This material is not subject to transport regulations.

Environmental hazards: Not regulated.

Special precautions for user: Warning Packaging with a breathing/venting bung are FORBIDDEN for transport by air.

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

| | |
|----------------------------|----------------------------|
| Quartz (SiO ₂) | Carcinogenic. |
| Carbon black | Carcinogenic. |
| Toluene | Developmental toxin. |
| Toluene | Female reproductive toxin. |

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

Chemical Identity

Quartz (SiO₂)
Carbon black

US. Massachusetts RTK - Substance List

Chemical Identity

Quartz (SiO₂)

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Quartz (SiO₂)
Carbon black

US. Rhode Island RTK

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

Inventory Status:

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|--|---|
| US TSCA Inventory: | 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. |
| 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

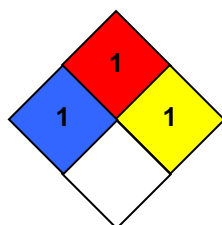
HMIS Hazard ID

| | | |
|----------------------------|---|---|
| Health | * | 1 |
| Flammability | 1 | |
| Physical Hazards | 1 | |
| 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



| | |
|--|-----------------|
| | Flammability |
| | Health |
| | Reactivity |
| | Special hazard. |

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

| | |
|-----------------------------|--------------------|
| Issue Date: | 01/30/2018 |
| Revision Date: | No data available. |
| Version #: | 14.0 |
| 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.