

Version: 13.2

Revision Date: 08/31/2023 Supersedes Date: 12/07/2022

SAFETY DATA SHEET

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR 1910.1200

1. Identification of the substance or mixture and of the supplier

1.1 Product identifier:

Product name: BLUESIL RTV 3460 B BLACK Product No.: PRCO90038789

1.2 Relevant identified uses of the substance or mixture and uses advised against:

Identified uses: Molding diverse objects. **Uses advised against:** None known.

1.3 Details of the supplier of the safety data sheet:

Manufacturer:

Elkem Silicones USA Corp. 7979 Park Place Road 29745 York, SC USA

E-mail: product.stewardship@elkem.com

Supplier:

Elkem Silicones USA Corp. Two Tower Blvd, Suite 1802 08816-1100 East Brunswick, NJ USA **Telephone:** +1 (732) 227-2060

Telephone: +1 (803) 792-3000

Fax: +1 (803) 684-7202

Fax: +1 (732) 249-7000

1.4 Emergency telephone number:

+1 (800) 424-9300 CHEMTREC

2. Hazard identification

2.1 Classification of the substance or mixture:

The product has been classified according to the legislation in force.

Hazard Classification:

Health Hazards:

Toxic to reproduction Category 1B H360Fd: May damage fertility. Suspected of

damaging the unborn child.

2.2 Label Elements:

Hazard pictograms:



Signal Word: Danger

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Hazard statements: H360Fd: May damage fertility. Suspected of damaging the

unborn child.

Precautionary Statements:

Prevention: P281: Use personal protective equipment as required.

Response: P308+P313: IF exposed or concerned: Get medical

advice/attention.

2.3 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:

General information:

Mixture of Polyorganosiloxanes, fillers, additives.

Hazardous Component(s):

Chemical name	Concentration *	Туре	CAS number	Classification
1,1,3,3-Tetramethyl-1,3- divinyldisiloxane	3 - <5%	Component	2627-95-4	Flam. Liq. 3 H226; Repr. 2 H361d;
2,4,6,8-Tetramethyl-2,4,6,8- tetravinylcyclotetrasiloxane	1 - <3%	Component	2554-06-5	Repr. 1B H360Fd;
Octamethylcyclotetrasiloxane	0.25 - <1%	Impurities	556-67-2	Flam. Liq. 3 H226; Repr. 2 H361; Aquatic Chronic 1 H410; Aquatic Toxicity (Chronic): M = 10
(1) Carbon black	0.1 - <1%	Component	1333-86-4	Carc. 2 H351;

⁽¹⁾ The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

The full text for all H-statements is displayed in section 16.

4. First-aid measures

General information:

For further information refer to section 8 "Exposure-controls/personal protection".

4.1 Description of first aid measures:

Inhalation:

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Skin Contact

Wash skin with soap and water. Get medical attention if symptoms occur.

Eye Contact:

In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical attention if symptoms occur.

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



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Ingestion:

Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if symptoms occur.

Personal Protection for First-aid Responders:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). Refer to sections 5 and 8 for information on emergency procedures and protective equipment.

4.2 Most important symptoms and effects, both acute and delayed:

Any important symptoms and effects are described in Section 11 (Toxicological information) of this SDS.

4.3 Indication of any immediate medical attention and special treatment needed:

Notes to the physician:

No specific recommendations.

5. Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Alcohol resistant foam. Carbon dioxide (CO2). Dry sand. Water spray.

Unsuitable extinguishing media:

Alkaline powders. Do not use water jet as an extinguisher, as this will spread the fire.

5.2 Special hazards arising from the substance or mixture:

Product will burn under fire conditions. This product may generate hydrogen gas. Vapors may form explosive mixtures with air. Thermal decomposition or combustion may liberate carbon oxides, silicon oxides and other toxic gases or vapors.

5.3 Advice for firefighters:

Special fire-fighting procedures:

Use standard firefighting procedures and consider the hazards of other involved materials. Remove undamaged containers from fire area if it is safe to do so. Evacuate to a safe location and contact the emergency services. 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

6.1 Personal precautions, protective equipment and emergency procedures:

Follow safe handling advice and personal protective equipment recommendations. Provide good ventilation. Remove all possible sources of ignition in the surrounding area. Prevent further leakage or spillage if safe to do so. Avoid contact with alkalis and caustic products. Caution: Contaminated surfaces may be slippery.

6.2 Environmental precautions:

Do not discharge into drains, water courses or onto the ground. Use containment for a large spill.

6.3 Methods and material for containment and cleaning up:

Absorb with sand or other inert absorbent. Materials in contact with water, moisture, acids or bases have the potential to generate hydrogen gas. Use clean non-sparking tools to collect absorbed material. Shovel up and place in a container for salvage or disposal. Recovered material should be stored in a vented container. Dispose of residue in accordance with regulations in force.

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6.4 Reference to other sections:

Please observe the important information mentioned in the other sections. In particular, information on exposure controls/personal protection and disposal considerations can be found under sections 8 and 13.

7. Handling and storage

7.1 Precautions for safe handling:

Precautions:

This product may generate hydrogen gas. Keep away from ignition source. Empty container after use should be stored in separate area, and be disposed after degassing completely. Handle and open container with care. Take precautionary measures against static discharges. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. Use mechanical ventilation in case of handling which causes formation of vapors. If ventilation is insufficient, suitable respiratory protection must be provided. See Section 8 of the SDS for Personal Protective Equipment. Do not mix with incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Take care to prevent spills, waste and minimize release to the environment. In case of spills, beware of slippery floors and surfaces. Contact Elkem Silicones for additional publications on the safe handling of SiH Product.

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.

7.2 Conditions for safe storage, including any incompatibilities:

Store in accordance with local/regional/national regulations. Avoid discharge into drains, water courses or onto the ground. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. For further information, refer to section 10: "Stability and Reactivity". Store in original tightly closed container, equipped with a degassing device. Product may evolve minute quantities of flammable hydrogen gas which can accumulate. Adequately ventilate to maintain vapors well below flammability limits and exposure guidelines. Do not repackage. Clogged container vents may increase pressure build up. Take care to always ensure that drums are kept in their upright position at any time during transportation, handling or storage since lied down drums could result in clogged exhaust valves. Keep in properly labelled containers. Protect against physical damage and/or friction.

Packaging frequently used at our sites:

Polyethylene. Steel drums coated with epoxy-resin.

7.3 Specific end use(s):

See the technical data sheet on this product for further information.

8. Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits:

Although some of the components of this product may have exposure guidelines, no exposure would be expected under normal handling conditions due to the physical state of the material.

Additional exposure limits under the conditions of use:

8.2 Exposure controls:

Appropriate Engineering Controls:

Use engineering controls to reduce air contamination to permissible exposure level. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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Individual protection measures, such as personal protective equipment:

Provide sufficient ventilation during operations which cause vapor formation. Personal protective equipment should be chosen according to applicable standards, adapted to the conditions of use of the product and in discussion with the supplier of the personal protective equipment.

Eye/face protection: Safety glasses with side shields

Hand Protection: Protective gloves are recommended.

Skin and Body Protection: No skin protection is ordinarily required under normal

conditions of use. In accordance with good industrial hygiene practices, precautions should be taken to avoid

skin contact.

Respiratory Protection: No protection is ordinarily required under normal

conditions of use and with adequate ventilation.

Environmental Controls:

See sections 7 and 13 of the Safety Data Sheet.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state: Liquid
Form: Viscous
Color: Colorless
Odor: Odorless

pH: By definition, pH measurement consists in the

determination of hydrogen ions concentration in solution, generally aqueous. Silicones products are hydrophobic and therefore, not soluble in water. By consequence, it is

not possible to measure the pH value.

Melting point/freezing point:No data available.Boiling Point:No data available.

Flash Point: > 94 °C / 201 °F (Closed cup according to method ASTM

D56.)

Flammability:

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure:

Relative vapor density:

No data available.

Density: Approximate 1 kg/dm3 (20 °C)

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. **Autoignition Temperature:**500 °C Hydrogen.

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Decomposition Temperature: > 200 °C

Kinematic viscosity: 5,000 mm2/s (20 °C) Approximate

9.2 Other information:

Dynamic viscosity: 5,000 mPa.s (20 °C) **Particle Size:** Not applicable

10. Stability and reactivity

10.1 Reactivity:

No other information noted.

10.2 Chemical Stability:

Material is stable under normal conditions.

10.3 Possibility of hazardous reactions:

This product may generate hydrogen gas.

10.4 Conditions to avoid:

Avoid heat, sparks, open flames and other ignition sources.

10.5 Incompatible Materials:

A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when this product is in contact with: Strong oxidizers, strong bases and chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.

10.6 <u>Hazardous Decomposition Products:</u>

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 (I/kg of product): < 94

11. Toxicological information

11.1 Information on toxicological effects:

Acute toxicity:

Oral: Based on our knowledge of the composition information:

1,1,3,3-TETRAMETHYL-1,3-DIVINYLDISILOXANE (2627-95-4):

Not classified LD 0 (Rat): 5,000 mg/kg; Method: Similar to OECD 401

2,4,6,8-TETRAMETHYL-2,4,6,8-TETRAVINYLCYCLOTETRASILOXANE (2554-06-5):

Based on available data, the classification criteria are not met. LD 0 (Rat; Male): > 4,800 mg/kg; Method: Similar to OECD 401; Results obtained on a similar product.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2):

Based on available data, the classification criteria are not met. LD 0 (Rat; Male): > 4,800 mg/kg; Method: Similar to OECD 401

CARBON BLACK (1333-86-4):

LD 50 (Rat; Female, Male): > 10,000 mg/kg; Method: Similar to OECD 401

Dermal: Based on our knowledge of the composition information:

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1,1,3,3-TETRAMETHYL-1,3-DIVINYLDISILOXANE (2627-95-4):

Not classified LD 0 (Rat): 2,000 mg/kg; Method: OECD 402; Results obtained on a similar product.

2,4,6,8-TETRAMETHYL-2,4,6,8-TETRAVINYLCYCLOTETRASILOXANE (2554-06-5):

Based on available data, the classification criteria are not met. LD 0 (Rabbit; Female, Male): > 2,000 mg/kg; Results obtained on a similar product.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2):

Based on available data, the classification criteria are not met. LD 0 (Rat; Female, Male): > 2,375 mg/kg; Method: Similar to OECD 402

Inhalation: Based on our knowledge of the composition information:

1,1,3,3-TETRAMETHYL-1,3-DIVINYLDISILOXANE (2627-95-4):

Not classified LC 0 (Rat; 6 h; Vapour): 1.875 mg/l; Method: Similar to OECD 412

2.4.6.8-TETRAMETHYL-2.4.6.8-TETRAVINYLCYCLOTETRASILOXANE (2554-06-5):

Based on available data, the classification criteria are not met. LC 0 (Rat; Female, Male; Vapour): > 1.32 mg/l; Method: OECD 403

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2):

Based on available data, the classification criteria are not met. LC 50 (Rat; Female, Male; 4 h; Aerosol): 36 mg/l; Method: OECD 403

CARBON BLACK (1333-86-4):

An Expert Judgment stated that no classification is necessary based on present knowledge.

Repeated dose toxicity:

No data available.

Skin Corrosion/Irritation:

No data available.

Serious Eye Damage/Eye Irritation:

No data available.

Respiratory or Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

In vitro:

No data available.

In vivo:

No data available.

Carcinogenicity:

Contains a component(s) that is/are not expected to be bioavailable due to the physical state of the material under normal handling and processing conditions.

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Carbon black Overall evaluation: 2B. Possibly carcinogenic to humans.

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

Carbon black Known To Be Human Carcinogen.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information: May damage fertility. Suspected of damaging the unborn child.

1,1,3,3-TETRAMETHYL-1,3-DIVINYLDISILOXANE (2627-95-4):

Not classified

Reproduction/developmental toxicity screening test: NOAEL (parent): 50 mg/kg; NOAEL (F1): 150 mg/kg;

NOAEL (F2): None. (Rat; Gavage (Oral)); Method: OECD 422; Reproductive toxicity

2,4,6,8-TETRAMETHYL-2,4,6,8-TETRAVINYLCYCLOTETRASILOXANE (2554-06-5):

May damage fertility.

Reproduction/developmental toxicity screening test: NOAEL (parent): 15 mg/kg; NOAEL (F1): 150 mg/kg;

NOAEL (F2): None. (Rat; Gavage (Oral)); Method: OECD 421; Effects on fertility

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2):

Suspected of damaging fertility.

Fertility study 2 generations: NOAEL (parent): 3.64 mg/l; NOAEL (F1): 3.64 mg/l; NOAEL (F2): None. (Rat; Female, Male; Inhalation); Method: Similar to OECD 416; Effects on fertility

Teratogenicity: Based on our knowledge of the composition information: May damage fertility. Suspected of damaging the unborn child.

1,1,3,3-TETRAMETHYL-1,3-DIVINYLDISILOXANE (2627-95-4):

Suspected of damaging the unborn child.

NOAEL (terato): 150 mg/kg; NOAEL (mater): 150 mg/kg (Rat; Gavage (Oral)); Method: OECD 414; The product is considered to be Embryo-foeto / Teratogenic.

2,4,6,8-TETRAMETHYL-2,4,6,8-TETRAVINYLCYCLOTETRASILOXANE (2554-06-5):

Suspected of damaging the unborn child.

NOAEL (terato): 100 mg/kg; NOAEL (mater): 100 mg/kg (Rat; Gavage (Oral)); Method: OECD 414;

Embryo-foeto / Teratogenic effects have been observed.

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2):

NOAEL (terato): > 8.492 mg/l; NOAEL (mater): 3.64 mg/l (Rat; Inhalation - vapor); Method: Similar to

OECD 414: The product is not considered to be toxic for development.

NOAEL (terato): > 6.066 mg/l; NOAEL (mater): 3.64 mg/l (Rabbit; Inhalation - vapor); Method: Similar to

OECD 414; The product is not considered to be toxic for development.

Specific Target Organ Toxicity - Single Exposure:

No data available.

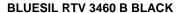
Specific Target Organ Toxicity - Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

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12. Ecological information

General information:

The maximum concentration of Octamethylcyclotetrasiloxane (D4) in the aquatic environment is estimated to be below the established no-effect threshold (<0.0079 mg/l) for aquatic organisms (based on partition coefficient, tested on similar products).

12.1 Ecotoxicity:

Acute toxicity:

Fish:

No data available.

Aquatic Invertebrates:

No data available.

Aquatic plants:

No data available.

Toxicity to microorganisms:

No data available.

Chronic Toxicity:

Fish:

No data available.

Aquatic Invertebrates:

No data available.

12.2 Persistence and Degradability:

Stability in water: No data available.

Biodegradation:

No data available.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF):

No data available.

Partition coefficient (n-octanol/water): Based on our knowledge of the composition information:

1,1,3,3-TETRAMETHYL-1,3-DIVINYLDISILOXANE (2627-95-4):

Log Kow: 5.4 (20 °C); Method: OECD 117

2,4,6,8-TETRAMETHYL-2,4,6,8-TETRAVINYLCYCLOTETRASILOXANE (2554-06-5):

Log Kow: 6.47 (20 °C); Method: OECD 117

OCTAMETHYLCYCLOTETRASILOXANE (556-67-2):

Log Kow: 5.10

12.4 Mobility in soil:

No data available.

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12.5 Other adverse effects:

No data available.

13. Disposal considerations

13.1 Waste treatment methods:

The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal methods:

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. 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 Packaging:

Contaminated packages should be as empty as possible and equipped with a degassing device. Recycle following cleaning or dispose of at an authorised site. Packaging that cannot be cleaned should be disposed of in the same way as the product it contained.

14. Transport information

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Not regulated.

IMDG / IMO

Not regulated.

IATA

Not regulated.

Other information:

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:

Reproductive toxicity

SARA 304 Emergency Release Notification: None present or none present in regulated quantities.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required: None present or none present in regulated quantities.

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US State Regulations:

US. California Proposition 65: No ingredient requiring a warning under CA Prop 65.

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. 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.

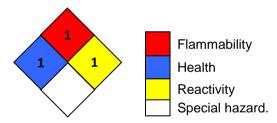
US. Rhode Island RTK: No ingredient regulated by RI Right-to-Know Law present.

Inventory Status:

Australia Industrial Chem. Act (AIIC): On or in compliance with the inventory. Canada DSL Inventory List: On or in compliance with the inventory. On or in compliance with the inventory. China Inv. Existing Chemical Substances: Japan (ENCS) List: On or in compliance with the inventory. Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory. New Zealand Inventory of Chemicals: On or in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory. Taiwan Chemical Substance Inventory: On or in compliance with the inventory. **US TSCA Inventory:** On or in compliance with the inventory. Vietnam National Chemical Inventory: On or in compliance with the inventory. EINECS, ELINCS or NLP: On or in compliance with the inventory. Thailand DIW Existing Chemical Inv. List: On or in compliance with the inventory.

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

NFPA Hazard ID:



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

Wording of the H-statements in section 2 and 3:

H226 Flammable liquid and vapor.H351 Suspected of causing cancer.

H360Fd May damage fertility. Suspected of damaging the unborn child.

H361 Suspected of damaging fertility or the unborn child.

H361d Suspected of damaging the unborn child.

H410 Very toxic to aquatic life with long lasting effects.

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Further Information:

No data available.

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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.

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