

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 147 A

Product No.: PRCO90000386

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 France SAS
1-55 rue des Frères Perret
F-69192 SAINT FONS Cedex
FRANCE

Telephone: +33 (0) 4 72 73 74 75

Fax: +33 (0) 4 72 73 75 99

E-mail: fds.sil@elkem.com

Supplier:

Elkem Silicones USA Corp.
Two Tower Blvd, Suite 1802
08816-1100 East Brunswick, NJ
USA

Telephone: +1 (732) 227-2060

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 not been classified as hazardous according to the legislation in force.

Hazard Classification: Not classified

2.2 Label Elements:

Hazard pictograms: No symbol

Signal Word: No signal word

Hazard statements: Not applicable

Precautionary Statements: Not applicable

2.3 Other hazards which do not result in GHS classification:

No other information noted.

3. Composition/information on ingredients

Mixtures:

General information:

Mixture of Polyorganosiloxanes, fillers, additives.

Hazardous Component(s):

Chemical name	Concentration *	Type	CAS number	Classification
(1) Quartz	20 - <50%	Component	14808-60-7	Carc. 1A H350i; STOT RE 1 H372;
(1) Calcium carbonate	1 - <5%	Component	471-34-1	None known.

(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.

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

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. Get medical attention if symptoms occur.

Skin Contact:

Wash skin thoroughly 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.

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. Show this Safety Data Sheet to the attending physician.

5. Fire-fighting measures

5.1 Extinguishing media:

Suitable extinguishing media:

Water spray, foam, dry powder or carbon dioxide.

Unsuitable extinguishing media:

Avoid water in straight hose stream; will scatter and spread fire.

5.2 Special hazards arising from the substance or mixture:

Product will burn under fire conditions. 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:

Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

6.2 Environmental Precautions:

Do not allow to enter drains, sewers or watercourses.

6.3 Methods and material for containment and cleaning up:

Absorb with sand or other inert absorbent and place into containers.

6.4 Reference to other sections:

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

7. Handling and storage

7.1 Precautions for safe handling:

Precautions:

Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. See Section 8 of the SDS for Personal Protective Equipment. 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.

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. Store in a well-ventilated place. Keep container tightly closed. Keep in properly labelled containers.

Packaging frequently used at our sites:

Polyethylene. Plastic lined steel drum.

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.

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.

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 (ASTM D4359)
Form:	Viscous
Color:	Beige
Odor:	Faint
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:	280 °C / 536 °F (Closed cup according to method Afnor T 60103.)
Flammability:	No data available.

Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	No data available.
Relative vapor density:	No data available.
Evaporation Rate:	No data available.
Density:	Approximate 1.24 kg/dm ³ (20 °C)
Solubility(ies):	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone: Very slightly soluble Ethanol: Very slightly soluble Diethylether: Dispersible Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
Kinematic viscosity:	Approximate 180,000 mm ² /s (25 °C)

9.2 Other information:

Dynamic viscosity:	Approximate 223,200 mPa.s (25 °C)
Oxidizing properties:	Not considered as oxidizing., According to the data on the components, (evaluation by structure-activity relationship)
Particle Size:	Not applicable

10. Stability and reactivity

10.1 Reactivity:

No data available.

10.2 Chemical Stability:

Stable

10.3 Possibility of hazardous reactions:

Will not occur.

10.4 Conditions to avoid:

None known.

10.5 Incompatible Materials:

Strong oxidizers, strong acids, and strong bases.

10.6 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

11.1 Information on toxicological effects:

Acute toxicity:

Oral:

Not classified for acute toxicity based on available data.

Dermal:

Not classified for acute toxicity based on available data.

Inhalation:

Not classified for acute toxicity based on available data.

Repeated dose toxicity:**Based on our knowledge of the composition information:**

CALCIUM CARBONATE (471-34-1):

NOAEL: 1,000 mg/kg ; (Rat ; Female, Male ; Gavage (Oral)) ; Method: OECD 422 ; No adverse effect observed.

NOAEC: 0.212 mg/l ; (Rat ; Female, Male ; Inhalation) ; Method: OECD 413

Skin Corrosion/Irritation:**Based on our knowledge of the composition information:**

CALCIUM CARBONATE (471-34-1):

Not irritating (Rabbit) ; Method: OECD 404

Serious Eye Damage/Eye Irritation:**Based on our knowledge of the composition information:**

CALCIUM CARBONATE (471-34-1):

Not irritating (Rabbit) ; Method: OECD 405

Respiratory or Skin Sensitization:**Based on our knowledge of the composition information:**

CALCIUM CARBONATE (471-34-1):

Skin sensitization: Not a skin sensitizer. (Mouse) ; Method: OECD 429

Germ Cell Mutagenicity:**In vitro: Based on our knowledge of the composition information:**

CALCIUM CARBONATE (471-34-1):

Bacterial reverse mutation test: negative (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471

In vitro mammalian chromosomal aberration test: negative (Human lymphocytes ; with and without metabolic activation) ; Method: OECD 473

In vitro gene mutations test on mammalian cells: negative (Mouse lymphoma cells ; with and without metabolic activation) ; Method: OECD 476

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.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

Quartz Overall evaluation: 1. Carcinogenic to humans.

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

Quartz Known To Be Human Carcinogen.

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

Quartz

Cancer

Reproductive toxicity:**Fertility: Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*

Not classified

Reproduction/developmental toxicity screening test: NOAEL (parent): $\geq 1,000$ mg/kg ; NOAEL (F1): $\geq 1,000$ mg/kg ; NOAEL (F2): None. (Rat ; Female, Male ; Gavage (Oral)) ; Method: OECD 422 ; No significant effect observed at this dose.**Teratogenicity: Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*

Not classified

NOAEL (terato): 1,963 - 2,188 mg/kg ; NOAEL (mater): 1,963 - 2,188 mg/kg (Rat ; Feed (Oral)) ; Method: Similar to OECD 414 ; No effect observed on development.

Specific Target Organ Toxicity - Single Exposure:**Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*

Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure:

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.

Aspiration Hazard:**Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*

Not applicable

12. Ecological information**12.1 Ecotoxicity:****Acute toxicity:****Fish: Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*LC 50 (Oncorhynchus mykiss; 96 h) : > 100 mg/l ; Method: OECD 203 ; No toxicity at the limit of solubility.**Aquatic Invertebrates: Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*LC 50 (Water flea (Daphnia magna)) : > 100 mg/l ; Method: OECD 202 ; No toxicity at the limit of solubility.**Aquatic plants: Based on our knowledge of the composition information:***CALCIUM CARBONATE (471-34-1):*ErC50 (Green algae (Scenedesmus subspicatus)) : > 14 mg/l ; Method: OECD 201

NOEC (Green algae (Scenedesmus subspicatus)) : 14 mg/l ; Method: OECD 201

Toxicity to microorganisms: Based on our knowledge of the composition information:*CALCIUM CARBONATE (471-34-1):*EC 50 (activated sludge, domestic (adaptation not specified); 3 h ; Static) : $> 1,000$ mg/l ; Method: OECD 209**Chronic Toxicity:**

Fish: No data available.

Aquatic Invertebrates: No data available.

12.2 Persistence and Degradability:

Stability in water: No data available.

Biodegradation: Based on our knowledge of the composition information:

CALCIUM CARBONATE (471-34-1):

90 % (sewage, domestic, non-adapted ; 28 d) ; Method: OECD 301 B ; The product is considered to be readily biodegradable.

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:

CALCIUM CARBONATE (471-34-1):

Inorganic

12.4 Mobility in soil:

No data available.

12.5 Other adverse effects:

None known.

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:

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. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

14. Transport information

DOT

Not regulated.

IMDG / IMO

Not regulated.

IATA

Not regulated.

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:

Not classified

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.

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:

Chemical Identity:

Quartz

Calcium carbonate

US. Massachusetts RTK - Substance List:

Chemical Identity:

Quartz

Calcium carbonate

US. Pennsylvania RTK - Hazardous Substances:

Chemical Identity:

Quartz

Calcium carbonate

US. Rhode Island RTK:

Chemical Identity:

Quartz

Calcium carbonate

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.
China Inv. Existing Chemical Substances:	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.
EINECS, ELINCS or NLP:	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	0
PERSONAL PROTECTION	
B	

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

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:

- H350i May cause cancer by inhalation.
- H372 Causes damage to organs through prolonged or repeated exposure.

Issue Date: 04/25/2023

Version #: 14.1

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.