

# SAFETY DATA SHEET

According to regulation (EC) n° 1907/2006 Annex II

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 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:** Moulding 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-69 192 SAINT FONS Cedex

**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 Germany GmbH  
Hans-Sachs-Strasse 4a  
D-23566 Lübeck

**Telephone:** +49 (0) 451 6 09 81-27

**Fax:** +49 (0) 451 6 09 81-11

**1.4 Emergency telephone number:** CHEMTREC Switzerland (24h) : +(41)-435082011 / National Poison Centre : 145

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Specific Target Organ Toxicity -  
Repeated Exposure

Category 2

H373: May cause damage to organs through prolonged or repeated exposure.

### 2.2 Label Elements

#### Supplemental label information

EUH210: Safety data sheet available on request.

#### Hazard summary

**Physical Hazards:** No specific recommendations.

#### Health Hazards

<b>Inhalation:</b>	Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use. Although classified according to EC criteria, this product is exempt from labelling according to article 23 and Annex 1 (section 1.3.4.1) of regulation (CE) n°1272/2008.
<b>Eye contact:</b>	No specific symptoms noted.
<b>Skin Contact:</b>	No specific symptoms noted.
<b>Ingestion:</b>	No specific symptoms noted.
<b>Other Health Effects:</b>	No other information noted.
<b>Environmental Hazards:</b>	Not regarded as dangerous for the environment.

**2.3 Other hazards** No data available.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

**General information:** Mixture of Polyorganosiloxanes, fillers, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Quartz	1 - <5%	14808-60-7	238-878-4	Exempted in accordance with Annex V.7	No data available.	#

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

# This substance has workplace exposure limit(s).

#### Classification

Chemical name	Classification	Notes
Quartz	STOT RE 1 H372;	No data available.

CLP: Regulation No. 1272/2008.

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

### SECTION 4: First aid measures

**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

#### 4.1 Description of first aid measures

**Inhalation:** Not relevant.

**Skin Contact:** Remove contaminated clothing and shoes. Wash with soap and water.

**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

**Ingestion:** Do not induce vomiting. Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** None known.

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

**Hazards:** No specific recommendations.

**Treatment:** No specific recommendations.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** No specific recommendations.

**5.1 Extinguishing media**  
**Suitable extinguishing media:** Extinguish with foam, carbon dioxide or dry powder. Water spray.

**Unsuitable extinguishing media:** None known.

**5.2 Special hazards arising from the substance or mixture:** None known. For further information, refer to section 10: "Stability and Reactivity".

**5.3 Advice for firefighters**  
**Special fire fighting procedures:** Water spray should be used to cool containers.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**6.1.1 For non-emergency personnel:** Use personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment.

**6.1.2 For emergency responders:** No data available.

**6.2 Environmental Precautions:** Collect spillage. Do not discharge into drains, water courses or onto the ground.

**6.3 Methods and material for containment and cleaning up:** Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.

**6.4 Reference to other sections:** Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

**SECTION 7: Handling and storage**

- |  |   |
|--|---|
| <b>7.1 Precautions for safe handling:</b>                                | No specific precautions.  |
| <b>7.2 Conditions for safe storage, including any incompatibilities:</b> | No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing agents. Suitable containers: polyethylene. Plastic lined steel drum. |
| <b>7.3 Specific end use(s):</b>  | No specific recommendations.  |

## **SECTION 8: Exposure controls/personal protection**

### **8.1 Control Parameters Occupational Exposure Limits**

Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

### **8.2 Exposure controls Appropriate Engineering Controls:**

No specific recommendations.

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

**General information:** No specific precautions.

**Eye/face protection:** Safety Glasses.

#### **Skin protection**

**Hand Protection:** Material: Nitrile.  
Material: Polyvinyl chloride (PVC).  
Material: Rubber or plastic.

**Other:** 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 specific precautions.

**Hygiene measures:** Provide eyewash station and safety shower.

**Environmental Controls:** No data available.

## **SECTION 9: Physical and chemical properties**

### **9.1 Information on basic physical and chemical properties**

#### **Appearance**

**Physical state:** Liquid

**Form:** Viscous

**Color:** Beige.

**Odor:** Faint

**Odor Threshold:** No data available.

**pH:** Not applicable

**Freezing point:** No data available.

**Boiling Point:** No data available.

**Flash Point:** 280 °C (Closed cup according to method Afnor T 60103.)

**Evaporation Rate:** No data available.

**Flammability (solid, gas):** No data available.

<b>Flammability Limit - Upper (%):</b>	No data available.
<b>Flammability Limit - Lower (%):</b>	No data available.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	Approximate 1,24 kg/dm <sup>3</sup> (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Practically Insoluble
<b>Solubility (other):</b>	Acetone: Very slightly soluble. Alcohol: Very slightly soluble. Diethylether: Dispersible Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	No data available.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	Approximate 180 000 mm <sup>2</sup> /s (25 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

**9.2 Other information:** No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	Not relevant.
<b>10.2 Chemical Stability:</b>	Stable
<b>10.3 Possibility of hazardous reactions:</b>	No data available.
<b>10.4 Conditions to avoid:</b>	No other information noted.
<b>10.5 Incompatible Materials:</b>	Strong oxidizing agents.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No effects expected (assessment based on ingredients).
<b>Ingestion:</b>	No effects expected (assessment based on ingredients).
<b>Skin Contact:</b>	No effects expected (assessment based on ingredients).
<b>Eye contact:</b>	No effects expected (assessment based on ingredients).

### 11.1 Information on toxicological effects:

**Acute toxicity:**

**Oral:**

**Product:**

Not classified for acute toxicity based on available data.

**Dermal:**

**Product:**

Not classified for acute toxicity based on available data.

**Inhalation:**

**Product:**

No effects expected (assessment based on ingredients).

**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).

**Germ Cell Mutagenicity:**

**In vitro:**

**Product:**

No effects expected (assessment based on ingredients).

**In vivo:**

**Product:**

No effects expected (assessment based on ingredients).

**Carcinogenicity:**

**Product:**

No effects expected (assessment based on ingredients).

**Reproductive toxicity:**

**Product:**

No effects expected (assessment based on ingredients).

**Reproductive toxicity (Fertility):**

**Product:**

No data available.

**Developmental toxicity (Teratogenicity):**

**Product:**

No data available.

**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).

<b>SECTION 12: Ecological information</b>
---

**General information:** Not applicable

**12.1 Toxicity:**

**Acute toxicity:**

**Fish:**

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

**Aquatic Invertebrates:**

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

**Chronic Toxicity:**

**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).

**12.2 Persistence and Degradability:**

**Biodegradation:**

**Product:** Not applicable

**BOD/COD Ratio:**

**Product:** No data available.

**12.3 Bioaccumulative potential:**

**Product:** No data available.

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

**12.5 Results of PBT and vPvB assessment:** None Reported

**12.6 Other adverse effects:** None known.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods:**

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

**Disposal methods**

**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. Incinerate.

**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.

**SECTION 14: Transport information**

This material is not subject to transport regulations.

**Other information:** No special precautions.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable.

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**  
none

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**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:	Not 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.

**SECTION 16: Other information**

**Revision Information:** Not relevant.

**References**

PBT	PBT: persistent, bioaccumulative and toxic substance.
vPvB	vPvB: very persistent and very bioaccumulative substance.



**Key abbreviations or acronyms used:**

No data available.

**Key literature references and sources for data:**

No data available.

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

H372

Causes damage to organs through prolonged or repeated exposure.

H373

May cause damage to organs through prolonged or repeated exposure.

**Training information:**

No data available.

**Issue Date:**

24.04.2018

**SDS No.:****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.

# SAFETY DATA SHEET

According to regulation (EC) n° 1907/2006 Annex II

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Product name:** BLUESIL RTV 147 B BLACK

**Product No.:** PRCO90000387

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

**Identified uses:** Used for making joints, sealing and gluing.

**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-69 192 SAINT FONS Cedex

**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 Germany GmbH  
Hans-Sachs-Strasse 4a  
D-23566 Lübeck

**Telephone:** +49 (0) 451 6 09 81-27

**Fax:** +49 (0) 451 6 09 81-11

**1.4 Emergency telephone number:** CHEMTREC Switzerland (24h) : +(41)-435082011 / National Poison Centre : 145

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Specific Target Organ Toxicity -  
Repeated Exposure

Category 1

H372: Causes damage to organs through  
prolonged or repeated exposure.

### 2.2 Label Elements

#### Supplemental label information

EUH210: Safety data sheet available on request.

#### Hazard summary

**Physical Hazards:** No specific recommendations.

**Health Hazards**

<b>Inhalation:</b>	Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use. Although classified according to EC criteria, this product is exempt from labelling according to article 23 and Annex 1 (section 1.3.4.1) of regulation (CE) n°1272/2008.
<b>Eye contact:</b>	No specific symptoms noted.
<b>Skin Contact:</b>	No specific symptoms noted.
<b>Ingestion:</b>	No specific symptoms noted.
<b>Other Health Effects:</b>	No other information noted.
<b>Environmental Hazards:</b>	Not regarded as dangerous for the environment.

**2.3 Other hazards** Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to section 10: "Stability and Reactivity".

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**General information:** Mixture of Polyorganosiloxanes, fillers, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Quartz (SiO <sub>2</sub> )	<25%	14808-60-7	238-878-4	No data available.	No data available.	#

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

# This substance has workplace exposure limit(s).

### Classification

Chemical name	Classification	Notes
Quartz (SiO <sub>2</sub> )	STOT RE 1 H372;	No data available.

CLP: Regulation No. 1272/2008.

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

## SECTION 4: First aid measures

**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

### 4.1 Description of first aid measures

**Inhalation:** Not relevant.

**Skin Contact:** Remove contaminated clothing and shoes. Wash with soap and water.

**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

**Ingestion:** Do not induce vomiting. Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** None known.

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

**Hazards:** No specific recommendations.

**Treatment:** No specific recommendations.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** No specific recommendations.

**5.1 Extinguishing media**  
**Suitable extinguishing media:** Foam. Powder. Carbon dioxide (CO<sub>2</sub>).

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

**5.2 Special hazards arising from the substance or mixture:** This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to section 10: "Stability and Reactivity".

**5.3 Advice for firefighters**  
**Special fire fighting procedures:** Water spray should be used to cool containers.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**6.1.1 For non-emergency personnel:** Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep away from Alkalis and caustic products. Eliminate all sources of ignition.

**6.1.2 For emergency responders:** No data available.

**6.2 Environmental Precautions:** Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Mechanically ventilate the spillage area, whilst avoiding the formation of explosive concentrations.

**6.3 Methods and material for containment and cleaning up:** Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Suitable containers: equipped with a degassing device. Absorb with sand or other inert absorbent. Do NOT use products which are basic. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water.

**6.4 Reference to other sections:** Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

**SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling:** Use mechanical ventilation in case of handling which causes formation of vapors. Do not mix with Incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in tightly closed original container. equipped with a degassing device. Suitable containers: polyethylene. Steel drums coated with epoxy-resin.
- 7.3 Specific end use(s):** No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control Parameters  
Occupational Exposure Limits**

Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

**8.2 Exposure controls****Appropriate Engineering Controls:**

Avoid inhalation of vapors and spray mists.

**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:**

Material: Nitrile.  
Material: Polyvinyl chloride (PVC).  
Material: Rubber or plastic.

**Other:**

It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.

**Respiratory Protection:**

No specific precautions.

**Hygiene measures:**

Provide eyewash station and safety shower.

**Environmental Controls:**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance****Physical state:**

Liquid

**Form:**

Viscous

**Color:**

Black

**Odor:**

Faint

**Odor Threshold:**

No data available.

**pH:**

Not applicable.

**Freezing point:**

No data available.

<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	180 °C (Closed cup according to method Afnor T 60103.)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	74 %(V) Hydrogen.
<b>Flammability Limit - Lower (%):</b>	4 %(V) Hydrogen.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	Approximate 1,25 kg/dm <sup>3</sup> (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Practically Insoluble
<b>Solubility (other):</b>	Acetone.: Practically Insoluble Alcohol: Practically Insoluble Diethylether.: Dispersible Aliphatic hydrocarbons.: Dispersible Aromatic hydrocarbons.: Dispersible Chlorinated solvents.: Dispersible
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	500 °C Hydrogen.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	Approximate 8 000 mm <sup>2</sup> /s (25 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

**9.2 Other information:** No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	No other information noted.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	This product may generate hydrogen gas.
<b>10.4 Conditions to avoid:</b>	No other information noted.
<b>10.5 Incompatible Materials:</b>	A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with : Strong oxidizing agents. Alkalis and caustic products. Chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica. Quantity of hydrogen potentially released (l/kg of product): < 70

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No effects expected (assessment based on ingredients).
<b>Ingestion:</b>	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).

#### 11.1 Information on toxicological effects:

##### Acute toxicity:

###### Oral:

###### Product:

Not classified for acute toxicity based on available data.

###### Dermal:

###### Product:

Not classified for acute toxicity based on available data.

###### Inhalation:

###### Product:

No effects expected (assessment based on ingredients).

##### 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).

##### Germ Cell Mutagenicity:

###### In vitro:

###### Product:

No effects expected (assessment based on ingredients).

###### In vivo:

###### Product:

No effects expected (assessment based on ingredients).

##### Carcinogenicity:

###### Product:

No effects expected (assessment based on ingredients).

##### Reproductive toxicity:

###### Product:

No effects expected (assessment based on ingredients).

##### Reproductive toxicity (Fertility):

###### Product:

No data available.

##### Developmental toxicity (Teratogenicity):

**Product:** No data available.

**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).

<b>SECTION 12: Ecological information</b>
---

**12.1 Toxicity:**

**Acute toxicity:**

**Fish:**

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

**Aquatic Invertebrates:**

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

**Chronic Toxicity:**

**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).

**12.2 Persistence and Degradability:**

**Biodegradation:**

**Product:** Not applicable.

**BOD/COD Ratio:**

**Product:** No data available.

**12.3 Bioaccumulative potential:**

**Product:** No data available.

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

**12.5 Results of PBT and vPvB assessment:** None Reported



12.6 Other adverse effects: None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

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

#### Disposal methods

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

## SECTION 14: Transport information

This material is not subject to transport regulations.

**Other information:** Warning Packaging with a breathing/venting bung are FORBIDDEN for transport by air.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable..

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**  
none

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

#### 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.

## SECTION 16: Other information

**Revision Information:** Not relevant.

**References**

PBT PBT: persistent, bioaccumulative and toxic substance.  
vPvB vPvB: very persistent and very bioaccumulative substance.

**Key abbreviations or acronyms used:**

No data available.

**Key literature references and sources for data:** No data available.

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

H372 Causes damage to organs through prolonged or repeated exposure.

**Training information:** No data available.

**Issue Date:** 14.11.2017

**SDS No.:**

**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.

# SAFETY DATA SHEET

According to regulation (EC) n° 1907/2006 Annex II

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier:

**Product name:** BLUESIL RTV 147 B BLUE

**Product No.:** PRCO90000388

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

**Identified uses:** Used for making joints, sealing and gluing.

**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-69 192 SAINT FONS Cedex

**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 Germany GmbH  
Hans-Sachs-Strasse 4a  
D-23566 Lübeck

**Telephone:** +49 (0) 451 6 09 81-27

**Fax:** +49 (0) 451 6 09 81-11

**1.4 Emergency telephone number:** CHEMTREC Switzerland (24h) : +(41)-435082011 / National Poison Centre : 145

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

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

**Classification according to Regulation (EC) No 1272/2008 as amended.**

#### Health Hazards

Specific Target Organ Toxicity -  
Repeated Exposure

Category 1

H372: Causes damage to organs through  
prolonged or repeated exposure.

### 2.2 Label Elements

#### Supplemental label information

EUH210: Safety data sheet available on request.

#### Hazard summary

**Physical Hazards:** No specific recommendations.

#### Health Hazards

<b>Inhalation:</b>	Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use. Although classified according to EC criteria, this product is exempt from labelling according to article 23 and Annex 1 (section 1.3.4.1) of regulation (CE) n°1272/2008.
<b>Eye contact:</b>	No specific symptoms noted.
<b>Skin Contact:</b>	No specific symptoms noted.
<b>Ingestion:</b>	No specific symptoms noted.
<b>Other Health Effects:</b>	No other information noted.
<b>Environmental Hazards:</b>	Not regarded as dangerous for the environment.

**2.3 Other hazards** Chemical compounds containing silicon - hydrogen bonds (SiH). This product may generate hydrogen gas. For further information, refer to section 10: "Stability and Reactivity".

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

**General information:** Mixture of Polyorganosiloxanes, fillers, additives.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Quartz (SiO <sub>2</sub> )	<30%	14808-60-7	238-878-4	No data available.	No data available.	#

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

# This substance has workplace exposure limit(s).

### Classification

Chemical name	Classification	Notes
Quartz (SiO <sub>2</sub> )	STOT RE 1 H372;	No data available.

CLP: Regulation No. 1272/2008.

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

## SECTION 4: First aid measures

**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.

### 4.1 Description of first aid measures

**Inhalation:** Not relevant.

**Skin Contact:** Remove contaminated clothing and shoes. Wash with soap and water.

**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

**Ingestion:** Do not induce vomiting. Rinse mouth thoroughly.

**4.2 Most important symptoms and effects, both acute and delayed:** None known.

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

**Hazards:** No specific recommendations.

**Treatment:** No specific recommendations.

**SECTION 5: Firefighting measures**

**General Fire Hazards:** No specific recommendations.

**5.1 Extinguishing media**  
**Suitable extinguishing media:** Foam. Powder. Carbon dioxide (CO<sub>2</sub>).

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

**5.2 Special hazards arising from the substance or mixture:** This product may generate hydrogen gas. Vapors may form explosive mixtures with air. For further information, refer to section 10: "Stability and Reactivity".

**5.3 Advice for firefighters**  
**Special fire fighting procedures:** Water spray should be used to cool containers.

**Special protective equipment for fire-fighters:** Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures:**

**6.1.1 For non-emergency personnel:** Wear appropriate personal protective equipment. See Section 8 of the SDS for Personal Protective Equipment. Keep away from Alkalis and caustic products. Eliminate all sources of ignition.

**6.1.2 For emergency responders:** No data available.

**6.2 Environmental Precautions:** Collect spillage. Prevent entry into waterways, sewer, basements or confined areas. Mechanically ventilate the spillage area, whilst avoiding the formation of explosive concentrations.

**6.3 Methods and material for containment and cleaning up:** Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Suitable containers: equipped with a degassing device. Absorb with sand or other inert absorbent. Do NOT use products which are basic. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water.

**6.4 Reference to other sections:** Caution: Contaminated surfaces may be slippery. For waste disposal, see Section 13 of the SDS.

**SECTION 7: Handling and storage**

- 7.1 Precautions for safe handling:** Use mechanical ventilation in case of handling which causes formation of vapors. Do not mix with Incompatible materials. For further information, refer to section 10: "Stability and Reactivity". Read and follow manufacturer's recommendations.
- 7.2 Conditions for safe storage, including any incompatibilities:** Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in tightly closed original container. equipped with a degassing device. Suitable containers: polyethylene. Steel drums coated with epoxy-resin.
- 7.3 Specific end use(s):** No data available.

**SECTION 8: Exposure controls/personal protection****8.1 Control Parameters  
Occupational Exposure Limits**

Quartz/cristobalite : When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.

**8.2 Exposure controls****Appropriate Engineering Controls:**

Avoid inhalation of vapors and spray mists.

**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:**

Material: Nitrile.  
Material: Polyvinyl chloride (PVC).  
Material: Rubber or plastic.

**Other:**

It is a good industrial hygiene practice to minimize skin contact. Wear suitable protective clothing.

**Respiratory Protection:**

No specific precautions.

**Hygiene measures:**

Provide eyewash station and safety shower.

**Environmental Controls:**

No data available.

**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties****Appearance****Physical state:**

Liquid

**Form:**

Viscous

**Color:**

Blue

**Odor:**

Faint

**Odor Threshold:**

No data available.

**pH:**

Not applicable.

**Freezing point:**

No data available.

<b>Boiling Point:</b>	No data available.
<b>Flash Point:</b>	180 °C (Closed cup according to method Afnor T 60103.)
<b>Evaporation Rate:</b>	No data available.
<b>Flammability (solid, gas):</b>	No data available.
<b>Flammability Limit - Upper (%):</b>	74 %(V) Hydrogen.
<b>Flammability Limit - Lower (%):</b>	4 %(V) Hydrogen.
<b>Vapor pressure:</b>	No data available.
<b>Vapor density (air=1):</b>	No data available.
<b>Density:</b>	Approximate 1,25 kg/dm <sup>3</sup> (20 °C)
<b>Solubility(ies)</b>	
<b>Solubility in Water:</b>	Practically Insoluble
<b>Solubility (other):</b>	Acetone.: Practically Insoluble Alcohol: Practically Insoluble Diethylether.: Dispersible Aliphatic hydrocarbons.: Dispersible Aromatic hydrocarbons.: Dispersible Chlorinated solvents.: Dispersible
<b>Partition coefficient (n-octanol/water):</b>	No data available.
<b>Autoignition Temperature:</b>	500 °C Hydrogen.
<b>Decomposition Temperature:</b>	No data available.
<b>Viscosity:</b>	Approximate 4 000 mm <sup>2</sup> /s (25 °C)
<b>Explosive properties:</b>	No data available.
<b>Oxidizing properties:</b>	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

**9.2 Other information:** No data available.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity:</b>	No other information noted.
<b>10.2 Chemical Stability:</b>	Material is stable under normal conditions.
<b>10.3 Possibility of hazardous reactions:</b>	This product may generate hydrogen gas.
<b>10.4 Conditions to avoid:</b>	No other information noted.
<b>10.5 Incompatible Materials:</b>	A fire or explosion hazard arises because highly flammable gas (hydrogen) is released when it is in contact with : Strong oxidizing agents. Alkalis and caustic products. Chemical compounds with mobile hydrogen, in the presence of metal salts and complexes.
<b>10.6 Hazardous Decomposition Products:</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica. Quantity of hydrogen potentially released (l/kg of product): < 85

## SECTION 11: Toxicological information

### Information on likely routes of exposure

<b>Inhalation:</b>	No effects expected (assessment based on ingredients).
<b>Ingestion:</b>	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).

#### 11.1 Information on toxicological effects:

##### Acute toxicity:

###### Oral:

###### Product:

Not classified for acute toxicity based on available data.

###### Dermal:

###### Product:

Not classified for acute toxicity based on available data.

###### Inhalation:

###### Product:

No effects expected (assessment based on ingredients).

##### 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).

##### Germ Cell Mutagenicity:

###### In vitro:

###### Product:

No effects expected (assessment based on ingredients).

###### In vivo:

###### Product:

No effects expected (assessment based on ingredients).

##### Carcinogenicity:

###### Product:

No effects expected (assessment based on ingredients).

##### Reproductive toxicity:

###### Product:

No effects expected (assessment based on ingredients).

##### Reproductive toxicity (Fertility):

###### Product:

No data available.

##### Developmental toxicity (Teratogenicity):



**Product:** No data available.

**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).

## SECTION 12: Ecological information

**General information:** Not applicable.

### 12.1 Toxicity:

**Acute toxicity:**

**Fish:**

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

**Aquatic Invertebrates:**

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

**Chronic Toxicity:**

**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).

### 12.2 Persistence and Degradability:

**Biodegradation:**

**Product:** Not applicable.

**BOD/COD Ratio:**

**Product:** No data available.

### 12.3 Bioaccumulative potential:

**Product:** No data available.

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

**12.5 Results of PBT and vPvB assessment:** None Reported

**12.6 Other adverse effects:** None known.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods:

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

#### Disposal methods

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

## SECTION 14: Transport information

This material is not subject to transport regulations.

**Other information:** Warning Packaging with a breathing/venting bung are FORBIDDEN for transport by air.

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code:** Not applicable..

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended:**  
none

**15.2 Chemical safety assessment:** No Chemical Safety Assessment has been carried out.

**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.

**SECTION 16: Other information**

**Revision Information:** Not relevant.

**References**

PBT	PBT: persistent, bioaccumulative and toxic substance.
vPvB	vPvB: very persistent and very bioaccumulative substance.

**Key abbreviations or acronyms used:**

No data available.

**Key literature references and sources for data:** No data available.

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

H372	Causes damage to organs through prolonged or repeated exposure.
------	---

**Training information:** No data available.

**Issue Date:** 10.11.2017

**SDS No.:**

**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.