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 3325 P **Product No.:** PRCO90058244

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 Siliconi Italia Srl
via Archimede, 602
I-21042 Caronno Pertusella

Telephone: +39 (02) 964 141
Fax: +39 (02) 96450209

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

Inhalation: 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.

Eye contact: No specific symptoms noted.

Skin Contact: No specific symptoms noted.

Ingestion: No specific symptoms noted.

Other Health Effects: No other information noted.

Environmental Hazards: Not regarded as dangerous for the environment.

2.3 Other hazards Meets PBT (persistent/bioaccumulative/toxic) criteria Meets vPvB criteria

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of Polyorganosiloxanes, fillers.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Cristobalite	10 - <20%	14464-46-1	238-455-4	Exempt	No data available.	#
Kieselguhr, soda ash flux-calcined	10 - <20%	68855-54-9	272-489-0	01-2119488518-22-XXXX	No data available.	#
Decamethylcyclopentasiloxane	0,1 - <1%	541-02-6	208-764-9	01-2119511367-43-0003	No data available.	vPvB
Dodecamethylcyclohexasiloxane	0,1 - <1%	540-97-6	208-762-8	01-2119517435-42-0002	No data available.	vPvB
Octamethylcyclotetrasiloxane	0,1 - <1%	556-67-2	209-136-7	01-2119529238-36-0002	No data available.	# PBT vPvB

* 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
Cristobalite	STOT RE 1 H372**;**	No data available.
Kieselguhr, soda ash flux-calcined	STOT RE 2 H373**;**	No data available.
Decamethylcyclopentasiloxane	None known.	No data available.

Dodecamethylcyclohexasiloxane	None known.	No data available.
Octamethylcyclotetrasiloxane	Flam. Liq. 3 H226**;** Repr. 2 H361f**;** Aquatic Chronic 4 H413**;**	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

7.1 Precautions for safe handling: No specific precautions.

7.2 Conditions for safe storage, including any incompatibilities: No special storage precautions noted. Material is stable under normal conditions. Avoid contact with oxidizing agents. Suitable containers: polyethylene. Plastic lined steel drum.

7.3 Specific end use(s): 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.

Chemical name	Type	Exposure Limit Values	Source
Octamethylcyclotetrasiloxane	VME	10 ppm 120 mg/m3	

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:	Paste
Form:	Viscous paste
Color:	Light grey
Odor:	Odorless
Odor Threshold:	No data available.
pH:	Not applicable
Melting Point:	No data available.
Boiling Point:	No data available.
Flash Point:	> 200 °C (Closed cup according to method ASTM D56.)
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%):	No data available.
Flammability Limit - Lower (%):	No data available.
Vapor pressure:	< 0,1 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	Approximate 1,2 kg/dm3 (20 °C)
Solubility(ies)	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone: Practically Insoluble Alcohol: Practically Insoluble Diethylether: Dispersible Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	> 400 °C
Decomposition Temperature:	> 200 °C
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	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

10.1 Reactivity:	Not relevant.
10.2 Chemical Stability:	Stable
10.3 Possibility of hazardous reactions:	No data available.

10.4 Conditions to avoid: No other information noted.

10.5 Incompatible Materials: Strong oxidizing agents.

10.6 Hazardous Decomposition Products: 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

Inhalation: No data available.

Ingestion: No data available.

Skin Contact: No data available.

Eye contact: No data available.

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: Composition/information on ingredients

Specified substance(s):

Kieselguhr, soda ash flux-calcined	LC 50 (Rat, 4 h): > 2,6 mg/l Aerosol
Decamethylcyclopentasiloxane	LC 50 (Rat): 8,67 mg/l
octamethylcyclotetrasiloxane	LC 50 (Rat, 4 h): > 36 mg/l

Repeated dose toxicity:

Product: Composition/information on ingredients

Specified substance(s):

Kieselguhr, soda ash flux-calcined	NOAEL (Rat, Feed (Oral)): 3 737,9 mg/kg Method: OECD 408 LOAEL (Rat, Inhalation): 0,044 mg/l Aerosol
Decamethylcyclopentasiloxane	NOAEL (Rat, Oral): >= 1 000 mg/kg NOAEL (Rat, Inhalation - vapor): >= 2,42 mg/l NOAEL (Rat, Dermal): >= 1 600 mg/kg
Dodecamethylcyclohexasiloxane	NOAEL (Rat, Oral): >= 1 000 mg/kg Method: OECD 422 NOAEL (Rat, Inhalation - vapor): 0,0182 mg/l Method: OECD 413
octamethylcyclotetrasiloxane	NOAEL (Rat, Inhalation): 1,820 mg/l Method: OECD 453 NOAEL (Rabbit, Dermal): 960 mg/kg Method: OECD 411

Skin Corrosion/Irritation:

Product:	Composition/information on ingredients
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	OECD 439 (In vitro) : Not irritating
Decamethylcyclopentasiloxane	Rabbit : Not irritating
Dodecamethylcyclohexasiloxane	OECD 404 (Rabbit) : Not irritating
octamethylcyclotetrasiloxane	Rabbit, 24 h : Not irritating

Serious Eye Damage/Eye Irritation:

Product:	Composition/information on ingredients
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	OECD 405 (Rabbit) : Not irritating
Decamethylcyclopentasiloxane	Rabbit : Not irritating
Dodecamethylcyclohexasiloxane	OECD 405 (Rabbit) : Not irritating
octamethylcyclotetrasiloxane	Rabbit, 24 h : Not irritating

Respiratory or Skin Sensitization:

Product:	Composition/information on ingredients
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	OECD 429 (Mouse) : Not a skin sensitizer.
Decamethylcyclopentasiloxane	Not a skin sensitizer.
Dodecamethylcyclohexasiloxane	OECD 406 (Guinea Pig) : Not a skin sensitizer.
octamethylcyclotetrasiloxane	Guinea Pig : Not a skin sensitizer.

Germ Cell Mutagenicity:

In vitro:

Product:	Composition/information on ingredients
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	Bacteria (OECD 471): No mutagenic effects. Chromosomal aberration (OECD 473): No clastogenic effect. (OECD 476)No mutagenic effects.
Decamethylcyclopentasiloxane	Chromosomal aberration : No mutagenic components identified. Bacteria : No mutagenic components identified.
Dodecamethylcyclohexasiloxane	Mouse lymphoma cells (OECD 476): negative with and without metabolic activation Bacteria (OECD 471): negative with and without metabolic activation
octamethylcyclotetrasiloxane	Bacteria : No mutagenic components identified. Chromosomal aberration : No mutagenic components identified. In vitro gene mutations test on mammalian cells: : No mutagenic components identified.

In vivo:

Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane	No effects expected.
Dodecamethylcyclohexasiloxane	Mammalian erythrocyte micronucleus test (OECD 474): No mutagenic effects.
octamethylcyclotetrasiloxane	No effects expected.

Carcinogenicity:

Product:	Composition/information on ingredients
Specified substance(s):	
octamethylcyclotetrasiloxane	Rat (, Female, Male, Inhalation): (OECD 453) No effects expected.

Reproductive toxicity:

Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane	Based on available data, the classification criteria are not met.
octamethylcyclotetrasiloxane	Suspected of damaging fertility.

Reproductive toxicity (Fertility):

Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane	Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1):None. NOAEL (F2): None. Method: OECD 416

Dodecamethylcyclohexasiloxane	Reproduction/developmental toxicity screening test. Rat (Gavage (Oral)): NOAEL (parent): >= 1 000 mg/kg NOAEL (F1):>= 1 000 mg/kg NOAEL (F2): Method: OECD 422
octamethylcyclotetrasiloxane	Fertility study 2 generations. Rat (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1):None. NOAEL (F2): None. Method: OECD 416

Developmental toxicity (Teratogenicity):

Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane	Rabbit NOAEL (terato): >= 1 000 mg/kg NOAEL (mater): >= 1 000 mg/kg Method: OECD 414 Rat NOAEL (terato): >= 1 000 mg/kg NOAEL (mater): >= 1 000 mg/kg Method: OECD 414
octamethylcyclotetrasiloxane	Rat (Inhalation): NOAEL (terato): > 6,066 mg/l NOAEL (mater): 3,640 mg/l Method: OECD 414

Specific Target Organ Toxicity - Single Exposure:

Product:	No data available.
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	Not classified
Dodecamethylcyclohexasiloxane	Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Repeated Exposure:

Product:	No data available.
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	Inhalation: Lungs - Causes damage to organs through prolonged or repeated exposure.
Dodecamethylcyclohexasiloxane	Based on available data, the classification criteria are not met.

Aspiration Hazard:

Product:	No data available.
Specified substance(s):	
octamethylcyclotetrasiloxane	No effects expected.

SECTION 12: Ecological information

12.1 Toxicity:

Acute toxicity:

Fish:

Product:	Composition/information on ingredients
Specified substance(s):	

Kieselguhr, soda ash flux-calcined	LC 50 (Oncorhynchus mykiss, 96 h): > 100 mg/l
octamethylcyclotetrasiloxane	LC 50 (Oncorhynchus mykiss, 96 h): >= 0,022 mg/l

Aquatic Invertebrates:

Product:	Composition/information on ingredients
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	EC 50 (Water flea (Daphnia magna), 48 h): > 100 mg/l
octamethylcyclotetrasiloxane	EC 50 (Water flea (Daphnia magna), 48 h): > 0,015 mg/l

Chronic Toxicity:

Fish:

Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane	NOEC (Oncorhynchus mykiss, 90 d): >= 0,014 mg/l
octamethylcyclotetrasiloxane	NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

Aquatic Invertebrates:

Product:	Composition/information on ingredients
Specified substance(s):	
Dodecamethylcyclohexasiloxane	NOEC (Water flea (Daphnia magna), 21 d): >= 0,0046 mg/l
octamethylcyclotetrasiloxane	NOEC (Water flea (Daphnia magna), 21 d): 0,015 mg/l

Toxicity to Aquatic Plants:

Product:	Composition/information on ingredients
Specified substance(s):	
Kieselguhr, soda ash flux-calcined	EC 50 (Green algae (Scenedesmus subspicatus), 72 h): > 100 mg/l
Dodecamethylcyclohexasiloxane	NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): >= 0,002 mg/l EC 50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l
octamethylcyclotetrasiloxane	EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0,022 mg/l

12.2 Persistence and Degradability:

Biodegradation:

Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane	0,14 % (28 d) The product is not readily biodegradable.
Dodecamethylcyclohexasiloxane	4,5 % (28 d, OECD 310) The product is not readily biodegradable.
octamethylcyclotetrasiloxane	3,7 % (29 d) The product is not considered to be readily biodegradable.

BOD/COD Ratio:

Product: No data available.

12.3 Bioaccumulative potential:

Product:	Composition/information on ingredients
Specified substance(s):	
Decamethylcyclopentasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 7 060
Dodecamethylcyclohexasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD 305) Has the potential to bioaccumulate.
octamethylcyclotetrasiloxane	Fathead Minnow, Bioconcentration Factor (BCF): 12 400

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment: Composition/information on ingredients

Decamethylcyclopentasiloxane	Meets vPvB criteria	REACH (1907/2006) Ax XIII
Dodecamethylcyclohexasiloxane	Meets vPvB criteria	REACH (1907/2006) Ax XIII
octamethylcyclotetrasiloxane	Meets PBT (persistent/bioaccumulative/toxic) criteria, Meets vPvB criteria	REACH (1907/2006) Ax XIII

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:

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:	Not 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.
H226	Flammable liquid and vapor.
H361f	Suspected of damaging fertility.
H413	May cause long lasting harmful effects to aquatic life.

Training information: No data available.

Issue Date: 08.01.2019
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.