



BLUESIL PASTE 4
Version: 9.2
Revision Date: 21.07.2020
Supersedes Date: 30.10.2019

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

1.1 Product identifier:

Product name: BLUESIL PASTE 4

Product No.: PRCO90000167

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

Identified uses: Lubricant.

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

E-mail: fds.sil@elkem.com

Supplier:

Elkem Silicones France SAS
21, avenue Georges Pompidou
F-69 003 LYON



5 place de l'Eglise, 74400 Saint Thibault des Vignes, France

+33 (0) 164 308 922 hse@service-chimie.fr +33 (0) 164 308 749 www.service-chimie.fr

1.4 Emergency telephone number: CHEMTREC France (24h) : +(33)-975181407 / National Poison Centre : + 33 (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture:

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

Classification according to Regulation (EC) No 1272/2008 as amended.
Not classified

2.2 Label Elements:

Contains: boric acid

Supplemental label information:

EUH210: Safety data sheet available on request.

2.3 Other hazards:

Physical Hazards: No specific recommendations.

Health Hazards:
Inhalation: No specific symptoms noted.

Eye contact: No specific symptoms noted.


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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.
Other hazards:	No data available.

SECTION 3: Composition/information on ingredients
3.2 Mixtures:
General information: Mixture of Polyorganosiloxanes, fillers.

Chemical name	Concentration*	Type	CAS-No.	EC No.	REACH Registration No.	Notes
boric acid	0,3 - <1%	Component	10043-35-3	233-139-2	01-2119486683-25-XXXX	

* 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).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification:

Chemical name	Classification	M-Factor:	Notes
boric acid	Repr. 1B H360FD;	None.	None.

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

SECTION 4: First aid measures
General information:

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 contact areas 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.



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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:

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

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:

Precautions:

No specific precautions.



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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. Contaminated work clothing should not be allowed out of the workplace.

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. Use container made of: Plastic lined steel drum. Suitable plastic material.

7.3 Specific end use(s):

No specific recommendations.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters:

Occupational Exposure Limits:

Chemical name	Type	Exposure Limit Values	Source
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Monitoring methods:

Ensure workers' exposure monitoring in accordance with national and European regulations in force, in particular Directives 98/24/EC and 2004/37/EC.

8.2 Exposure controls:

Appropriate Engineering Controls:

Use engineering controls to reduce air contamination to permissible exposure level. The level of protection and types of controls necessary will vary depending upon potential exposure conditions. Engineering controls are always preferable to personal protective equipment. Control measures to consider: Provide adequate ventilation. In case of inadequate ventilation: Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment:

Avoid inhalation of vapors/aerosols/dusts and contact with skin and eyes. 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.



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Hand Protection:

This recommendation is valid only for the product named in this safety data sheet supplied by us, and only for the indicated intended use purposes.

In case this product will be mixed with other substances, you need to contact a supplier of CE approved protective gloves in order to determine the appropriate gloves.

Prolonged or repeated contact:

Material: Nitrile.

Glove thickness: 1,25 mm

Guideline: EN374-3

Additional Information: Gloves commonly used in Elkem's facilities.

Short contact:

Material: Nitrile / Neoprene

Glove thickness: 0,198 mm

Guideline: EN374-3

Additional Information: Gloves commonly used in Elkem's labs.

Skin and Body Protection:

Wear appropriate clothing to prevent any possibility of skin contact. Isolate contaminated clothing and wash before reuse. In case of splashes: Wear apron or special protective clothing.

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Use the following CE approved air-purifying respirator: Breathing apparatus with combined filter type ABEK. Wear respiratory protection with combination filter (dust and gas filter) during operations leading to the formation of dust/aerosols.

Environmental Controls:

See sections 7 and 13 of the Safety Data Sheet.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance:

Physical state:	Solid
Form:	Paste
Color:	White
Odor:	Faint
Odor Threshold:	No data available.
pH:	Not applicable
Melting point/freezing point:	No data available.
Boiling Point:	No data available.
Flash Point:	225 °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.



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Flammability Limit - Lower (%):	No data available.
Vapor pressure:	< 0,1 hPa (20 °C)
Vapor density (air=1):	No data available.
Density:	Approximate 1,01 kg/dm ³ (20 °C)
Solubility(ies):	
Solubility in Water:	Practically Insoluble
Solubility (other):	Acetone: Insoluble Alcohol: Insoluble Diethylether: Dispersible Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible
Partition coefficient (n-octanol/water):	No data available.
Self Ignition Temperature:	> 400 °C
Decomposition Temperature:	No data available.
Kinematic viscosity:	No data available.
Dynamic 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:**

No other information noted.

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.

SECTION 11: Toxicological information

Information on likely routes of exposure:

Inhalation:

No data available.

Ingestion:



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No data available.

Skin contact:

No data available.

Eye contact:

No data available.

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:

BORIC ACID (CAS-No. 10043-35-3):

NOAEL: 17,5 mg/kg ; LOAEL: 58,5 mg/kg ; (Rat ; Female, Male ; Feed (Oral)) ; Chronic exposure

NOAEL: 0,47 mg/l ; (Rat ; Female, Male ; Inhalation - dust and mist) ; Subchronic exposure

NOAEL: >= 0,057 mg/l ; (Dog ; female ; Inhalation - dust and mist) ; Subchronic exposure

Skin Corrosion/Irritation:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

Not irritating (Rabbit ; 24 h) ; Method: According to a standardised method.

Serious Eye Damage/Eye Irritation:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No.10043-35-3):

Slightly irritating. (Rabbit ; 24 h) ; Method: OECD 405

Respiratory or Skin Sensitization:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

Skin sensitization: Not a skin sensitizer. (Guinea Pig) ; Method: OECD 406



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Germ Cell Mutagenicity:

In vitro: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

Bacterial reverse mutation test: No mutagenic effect. (Salmonella typhimurium ; with and without metabolic activation) ; Method: OECD 471

In vitro gene mutations test on mammalian cells: No mutagenic effect. (Mouse lymphoma cells ; with and without metabolic activation) ; Method: OECD 476

In vitro Sister Chromatid Exchange (SCE) assay in mammalian cells: No mutagenic effect. (Chinese hamster ovary cells ; with and without metabolic activation) ; Method: According to a standardised method.

In vivo: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

Mammalian erythrocyte micronucleus test: No mutagenic effect. (Mouse ; Gavage (Oral)) ;

Method: OECD 474

Carcinogenicity:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

NOEL: > 5 000 ppm (Mouse ; Feed (Oral)) ; Method: OECD 451

Reproductive toxicity:

Fertility: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

Fertility study 3 generations: NOAEL (parent): 17,5 mg/kg NOAEL (F1): 17,5 mg/kg ; NOAEL (F2):

17,5 mg/kg (Rat ; Feed (Oral)) ; Specific concentration limit: >=5.5%

Teratogenicity: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

NOAEL (terato): 9,6 mg/kg ; NOAEL (mater): 13,3 mg/kg (Rat ; Feed (Oral)) ; Method: OECD 414

Specific Target Organ Toxicity - Single Exposure:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No.10043-35-3):

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

Specific Target Organ Toxicity - Repeated Exposure:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No.10043-35-3):

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

Aspiration Hazard:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):

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

SECTION 12: Ecological information



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12.1 Toxicity:

Acute toxicity:

Fish: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):
LC 50 (Pimephales promelas; 96 h ; Static) : 79,7 mg/l ; Method: According to a standardised method.
; Results obtained on a similar product.

Aquatic Invertebrates: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):
LC 50 (Water flea (Ceriodaphnia dubia); 48 h ; Static) : 91 mg/l ; Method: OECD 202

Aquatic plants: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):
EC 50 (Algae (Pseudokirchneriella subcapitata); 72 h ; Static) : 52,4 mg/l ; Method: OECD 201
NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata); 72 h ; Static) : 17,5 mg/l ; Method: OECD 201

Toxicity to microorganisms: No data available.

Chronic Toxicity:

Fish: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):
NOEC (Zebra danio (Danio rerio); 34 d ; semi-static) : 6,4 mg/l ; Method: OECD 210

Aquatic Invertebrates: Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):
NOEC (Water flea (Daphnia magna); 21 d ; semi-static) : 10,8 mg/l ; Method: OECD 211
EC 10 (Water flea (Daphnia magna); 21 d ; semi-static) : 17,7 mg/l ; Method: OECD 211

12.2 Persistence and Degradability:

Biodegradation: No data available.

BOD/COD Ratio: No data available.

12.3 Bioaccumulative potential:

Bioconcentration Factor (BCF): No data available.

BORIC ACID (CAS-No. 10043-35-3):
< 0,1

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

BORIC ACID (CAS-No. 10043-35-3):
Log Kow: -1,09 (22 °C)

12.4 Mobility in soil:

No data available.

12.5 Results of PBT and vPvB assessment:

Based on our knowledge of the composition information:

BORIC ACID (CAS-No. 10043-35-3):
Not applicable

12.6 Other adverse effects:



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None known.

SECTION 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. 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.

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:

EU. REACH Candidate List of Substances of Very High Concern for Authorization (SVHC):

Chemical name	CAS-No.	Concentration	Additional Information:
boric acid	10043-35-3	0,1 - 1,0%	Toxic for reproduction
Dodecamethylcyclohexasiloxane	540-97-6	- <0,1%	very Persistent and very Bioaccumulative (vPvB)
Decamethylcyclopentasiloxane	541-02-6	- <0,1%	very Persistent and very Bioaccumulative (vPvB)
octamethylcyclotetrasiloxane	556-67-2	- <0,1%	Persistent, Bioaccumulative and Toxic (PBT), very Persistent and very Bioaccumulative (vPvB)

EU. Directive 2012/18/EU (SEVESO III) on major accident hazards involving dangerous substances, Annex I:

Classification	Lower-tier Requirements	Upper-tier Requirements
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15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.



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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.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory.

SECTION 16: Other information

Revision Information:

Not relevant.

Abbreviations and acronyms:

CLP: Regulation No. 1272/2008.
PBT: persistent, bioaccumulative and toxic substance.
vPvB: very persistent and very bioaccumulative substance.
NOAEL - No Observable Adverse Effect Level
LOAEL - Lowest Observable Adverse Effect Level

Key literature references and sources for data:

No data available.

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

H360FD May damage fertility. May damage the unborn child.

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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.