Material Safety Data Sheet
according to Regulation (EC) No. 1907/2006

Basfoliar® CaBMg SL

Version: 2.8
Date of last issue: 23.12.2022
Date of first issue: 16.01.2017

Revision Date:
06.04.2023

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

1.1 Product identifier

Trade name	:	Basfoliar® CaBMg SL
UFI	:	8PT2-X0GQ-J00J-6SAH

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

Use of the Substance/Mixture	:	Fertilizer

1.3 Details of the supplier of the safety data sheet

Company	:	COMPO EXPERT GmbH Krögerweg 10 D-48155 Münster
Telephone	:	+49 (0) 251 29 79 81 – 000
Telefax	:	+49 (0) 251 29 79 81 - 111
E-mail address of person responsible for the SDS	:	info@compo-expert.com

1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h
Telephone: +49 (0) 6132 - 84463

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Eye irritation, Category 2	H319: Causes serious eye irritation.
Reproductive toxicity, Category 1B	H360FD: May damage fertility. May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms	:		
Signal word	:	Danger	
Hazard statements	:	H360FD	May damage fertility. May damage the unborn child.
		H319	Causes serious eye irritation.
Precautionary statements	:	P201	Obtain special instructions before use.
		P202	Do not handle until all safety precautions have been read and understood.
		Prevention:	
		P280	Wear protective gloves/ eye protection/ face protection.
		Response:	
		P308 + P313	IF exposed or concerned: Get medical advice/ attention.
		Storage:	
		P405	Store locked up.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Liquid mixture of organic and inorganic salts of fertilzers.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
calcium chloride	10043-52-4 233-140-8 01-2119494219-28-XXXX	Eye Irrit. 2; H319	>= 25 - <= 50

Magnesium chloride (MgCl2), hexahydrate	7791-18-6 232-094-6 01-2119485597-19-XXXX		>= 10 - <= 25
Boric acid	11113-50-1 234-343-4 01-2119486683-25-XXXX	Repr. 1B; H360FD	>= 0,1 - <= 1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off immediately all contaminated clothing.

If inhaled : Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
By disorders:
Obtain medical attention.

In case of skin contact : Wash off immediately with soap and plenty of water.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
If symptoms persist, seek medical advice.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Allergic appearance
Sensitisation

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : The product is not flammable.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : In case of combustion evolution of dangerous gases possible.

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
In the event of fire and/or explosion do not breathe fumes.

Further information : Cool endangered containers with water-spray.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Avoid contact with skin, eyes and clothing.
Ensure adequate ventilation.
In case of involuntary exposition of the product contact producer or supplier.

6.2 Environmental precautions

Environmental precautions : Do not empty into drains.
Product should not reach open waters.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling	:	Avoid contact with skin, eyes and clothing.
Advice on protection against fire and explosion	:	No special precautions required.
Hygiene measures	:	Keep away from food, drink and animal feedingstuffs. Take off immediately all contaminated clothing. Hands and/or face should be washed before breaks and at the end of the shift.

7.2 Conditions for safe storage, including any incompatibilities

Further information on storage conditions	:	Keep containers tightly closed in a cool, well-ventilated place.
Advice on common storage	:	Not relevant
Storage class (TRGS 510)	:	12, Non Combustible Liquids

7.3 Specific end use(s)

Specific use(s)	:	Always read the label and product information before use.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Boric acid	11113-50-1	TWA	2,6 mg/m3	DE TRGS 900
		STEL	5,2 mg/m3	DE TRGS 900
			0,5 mg/m3	

No data available

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Basfoliar® CaBMg SL				
Remarks:	This information is not available.			

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Basfoliar® CaBMg SL		

Remarks:	This information is not available.

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : For prolonged or repeated contact use protective gloves. Chemical resistant protective gloves (EN 374). butyl rubber (butyl) - 0.7 mm coating thickness chloroprene rubber (CR) - 0.5 mm coating thickness polyvinylchloride (PVC) - 0.7 mm coating thickness The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Skin and body protection : Protective suit

Respiratory protection : respiratory protection only if aerosol or dust is formed.

Environmental exposure controls

General advice : Do not empty into drains.
Product should not reach open waters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour	:	colourless
Odour	:	very faint
pH	:	ca. 3,5, (20 °C)
melting range	:	ca. 0 °C
Boiling range	:	ca. > 100 °C
Flash point	:	Not applicable
Evaporation rate	:	No data available
Flammability (solid, gas)	:	The product is not flammable.
Upper explosion limit	:	Not applicable
Lower explosion limit	:	Not applicable
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Density	:	ca. 1,42 g/cm³ (20 °C)
Solubility(ies)		
Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	To avoid thermal decomposition, do not overheat.
Viscosity		
Viscosity, dynamic	:	No data available
Explosive properties	:	Not explosive
Oxidizing properties	:	Not considered an oxidizing substance

9.2 Other information

Surface tension	:	No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Conditions to avoid	:	No decomposition if stored and applied as directed.

10.5 Incompatible materials

Materials to avoid	:	Strong oxidizing agents Strong bases

10.6 Hazardous decomposition products

Hazardous decomposition products	:	In case of fire hazardous decomposition products may be produced such as: Carbon oxides

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product:

Acute oral toxicity	:	Remarks: This information is not available.

Components:

Boric acid:

Acute oral toxicity	:	LD50 (Mouse): 3.450 mg/kg LD50 (Rat): 2.660 mg/kg
Acute inhalation toxicity	:	LC50 (Rat): 2 mg/l
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg

Skin corrosion/irritation

Product:

Result: No skin irritation
Remarks: Calculation method

Components:

Boric acid:
Species: Rabbit
Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: Eye irritation
Remarks: Calculation method

Components:

Boric acid:
Species: Rabbit
Method: OECD Test Guideline 405
Result: No eye irritation

Respiratory or skin sensitisation

Product:

Remarks: May cause sensitisation of susceptible persons by skin contact.

Components:

Boric acid:
Method: OECD Test Guideline 406
Result: non-sensitizing

germ cell mutagenicity

Product:

Genotoxicity in vitro	:	Remarks: In vitro tests did not show mutagenic effects The product has not been tested. The information is derived from the properties of the individual components.

Components:

Boric acid:

Genotoxicity in vitro	:	Test Type: Mammalian cell gene mutation assay Result: Mutagenicity tests revealed no genotoxic potential. Remarks: In vitro tests did not show mutagenic effects
Germ cell mutagenicity-	:	Tests on bacterial or mammalian cell cultures did not show

Assessment	mutagenic effects.

Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Components:

Boric acid:
Species: Rat
Application Route: Oral
Method: OECD Test Guideline 451
Remarks: Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Effects on fertility	:	Remarks: No toxicity to reproduction
Effects on foetal development	:	Remarks: Contains no ingredient listed as toxic to reproduction

Components:

Boric acid:

Effects on foetal development	:	Remarks: Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects.
Reproductive toxicity - Assessment	:	May damage fertility. May damage the unborn child.

STOT - single exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT - repeated exposure

Product:

Assessment: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties
No data available

Further information
No data available

SECTION 12: Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability

Product:

Biodegradability	:	Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

Components:

Boric acid:

Biodegradability	:	Remarks: Not applicable

12.3 Bioaccumulative potential

Product:

Bioaccumulation	:	Remarks: Bioaccumulation is unlikely.

12.4 Mobility in soil

Product:

Mobility	:	Remarks: No data available

Components:

Boric acid:

Mobility	:	Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment	:	Remarks: No data available

Components:

Boric acid:

Assessment	:	This substance is not considered to be persistent,

bioaccumulating and toxic (PBT)..
Remarks: Not applicable

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological information	:	slightly water endangering Do not flush into surface water or sanitary sewer system. Neutralisation will reduce ecotoxic effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product	:	Must not be disposed together with household garbage. Do not allow product to reach sewage system. Fertilizer Check if agriculture use is possible.
Contaminated packaging	:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: Transport information

14.1 UN number or ID number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : contains Boric acid

Water contaminating class (Germany) : WGK 1 slightly water endangering

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H319 : Causes serious eye irritation.
H360FD : May damage fertility. May damage the unborn child.

Full text of other abbreviations

Eye Irrit. : Eye irritation
Repr. : Reproductive toxicity

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent

and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

DE / EN