

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Algae SL



Version: 1.6  
Date of last issue: 23.12.2022  
Date of first issue: 29.07.2016

Revision Date:  
07.04.2023

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

#### 1.1 Product identifier

Trade name : Basfoliar® Algae SL

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

Use of the Substance/Mixture : Plant assistants

#### 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

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Supplemental Hazard Statements : EUH210 Safety data sheet available on request.

#### 2.3 Other hazards

No specific dangers known, if the regulations/notes for storage and handling are considered.

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### SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

Chemical nature : fertilizer contains:  
extract of algae  
inorganic metal salts  
Urea  
boric acid

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
Boric acid	11113-50-1  234-343-4  01-2119486683-25-XXXX	Repr. 1B; H360FD	<= 0,5
orthophosphoric acid	7664-38-2  231-633-2  01-2119485924-24-XXXX	Skin Corr. 1B; H314  specific concentration limit  Skin Corr. 1B; H314  >= 25 %  Skin Irrit. 2; H315  10 - < 25 %  Eye Irrit. 2; H319  10 - < 25 %	>= 1 - <= 3

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

If inhaled : Fresh air.  
By disorders:

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Obtain medical attention.

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

In case of eye contact : Immediately flush eye(s) with plenty of water.  
If symptoms persist, seek medical advice.

If swallowed : Rinse mouth.  
Drink water as a precaution.

### 4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

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

Treatment : Treat symptomatically.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry chemical  
Water spray

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : No particular hazards known.

### 5.3 Advice for firefighters

Special protective equipment for firefighters : rubber boots with protection equipment Protective gloves  
Wear self-contained breathing apparatus for firefighting if necessary.

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

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Ensure adequate ventilation.  
In case of involuntary exposition of the product contact producer or supplier.

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### 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Prevent further leakage or spillage.  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
After cleaning, flush away traces with water.

### 6.4 Reference to other sections

none

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin, eyes and clothing.  
Wash hands before breaks and at the end of workday.  
Keep away from children.

Advice on protection against fire and explosion : No special precautions required.

Hygiene measures : Keep away from food, drink and animal feedingstuffs. 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

Requirements for storage areas and containers : Keep away from heat. Keep away from direct sunlight.

Further information on storage conditions : Keep away from food, drink and animal feedingstuffs.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Recommended storage temperature : 5 - 40 °C

### 7.3 Specific end use(s)

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

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

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Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Boric acid	11113-50-1	TWA	2,6 mg/m <sup>3</sup>	DE TRGS 900
		STEL	5,2 mg/m <sup>3</sup>	DE TRGS 900
			0,5 mg/m <sup>3</sup>	
orthophosphoric acid	7664-38-2	TWA	1 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		STEL	2 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		(Inhalable fraction)	2 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		TLV-C (Inhalable fraction)	1 ml/m <sup>3</sup> 1 mg/m <sup>3</sup>	other
		TLV-C (Inhalable fraction)	2 ml/m <sup>3</sup> 2 mg/m <sup>3</sup>	AGW

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

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

## 8.2 Exposure controls

### Personal protective equipment

Eye protection : Goggles

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Hand protection

Material : Rubber gloves

Skin and body protection

: Rubber or plastic boots

Respiratory protection

: Not required; except in case of aerosol formation.

Protective measures

: Handle in accordance with good industrial hygiene and safety practice.

### Environmental exposure controls

General advice

: Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state

: liquid

Colour

: green

Odour

: characteristic

Odour Threshold

: No data available

pH

: ca. 4,6 - 4,8, (20 °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

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Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: ca. 1,137 g/cm <sup>3</sup> (20 °C)
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if stored and applied as directed.
Viscosity	
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Explosive properties	: Not explosive
Oxidizing properties	: Not considered an oxidizing substance

### 9.2 Other information

Surface tension	: No data available
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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: None known.
	Stable under recommended storage conditions.

### 10.4 Conditions to avoid

Conditions to avoid	: Protect from frost, heat and sunlight.
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### 10.5 Incompatible materials

Materials to avoid : Strong bases  
Oxidizing agents

### 10.6 Hazardous decomposition products

Stable under normal conditions.

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## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity : Assessment: The component/mixture is low toxic after single ingestion.

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

##### 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

##### **orthophosphoric acid:**

Acute oral toxicity : LD50 (Rat): 2.600 mg/kg  
Method: OECD Guideline 423

#### Skin corrosion/irritation

##### Product:

Remarks: non-irritant

##### Components:

##### **Boric acid:**

Species: Rabbit  
Result: No skin irritation

#### Serious eye damage/eye irritation

##### Product:



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Remarks: slight irritation

### **Components:**

#### **Boric acid:**

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

### **Respiratory or skin sensitisation**

#### **Product:**

Result: No data available

### **Components:**

#### **Boric acid:**

Method: OECD Test Guideline 406  
Result: non-sensitizing

### **germ cell mutagenicity**

#### **Product:**

Genotoxicity in vitro : Remarks: No data available

### **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-Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

### **Carcinogenicity**

#### **Product:**

Remarks: This information is not available.

### **Components:**

#### **Boric acid:**

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

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### Reproductive toxicity

#### Product:

Effects on fertility : Remarks: This information is not available.

Effects on foetal development : Remarks: This information is not available.

#### 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

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

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Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

Toxicity to algae : Remarks: No data available

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: No data available

#### Components:

##### **Boric acid:**

Biodegradability : Remarks: Not applicable

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No data available

### 12.4 Mobility in soil

#### Product:

Distribution among environmental compartments : 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

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### 12.7 Other adverse effects

**Product:**

Additional ecological information : See information supplied by the manufacturer.  
Do not flush into surface water or sanitary sewer system.  
The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.  
Contaminated packaging : Uncontaminated packs can be re-used.  
Observe national and local legal requirements.

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## 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.

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## SECTION 15: Regulatory information

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

Water contaminating class (Germany) : WGK 2 water endangering

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## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

## SECTION 16: Other information

### Full text of H-Statements

H314 : Causes severe skin burns and eye damage.  
H360FD : May damage fertility. May damage the unborn child.

### Full text of other abbreviations

Repr. : Reproductive toxicity  
Skin Corr. : Skin corrosion

(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

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### 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.

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