according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

# Basfoliar® 20-19-19 SP



Version Revision Date: SDS Number: Date of last issue: 17.01.2025
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Basfoliar® 20-19-19 SP

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

Use of the Sub- : Fertiliser

stance/Mixture

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)

Not a hazardous substance or mixture.

### 2.2 Label elements

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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required

### **Additional Labelling**

EUH210 Safety data sheet available on request.

Further information : German "Hazardous Substances" legislation ( Gefahrstoffver-

ordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

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#### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature : Inorganic fertiliser

Components

Chemical name	CAS-No. EC-No.	Classification	Concentration (% w/w)
	Index-No.		
	Registration number		
boric acid	10043-35-3	Repr. 1B; H360FD	>= 0,1 - < 0,3
	233-139-2		
	005-007-00-2		
	01-2119486683-25-		
	XXXX		

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice : Move out of dangerous area.

Consult a physician.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

Protection of first-aiders : First Aid responders should pay attention to self-protection

and use the recommended protective clothing

If potential for exposure exists refer to Section 8 for specific

personal protective equipment.

If inhaled : If breathed in, move person into fresh air.

If symptoms persist, call a physician.

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

Take off all contaminated clothing immediately.

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If symptoms persist, call a physician.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear.

Do NOT induce vomiting.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Ingestion may provoke the following symptoms:

Methaemoglobinemia

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 : Water

Dry chemical Water mist

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

Unsuitable extinguishing

media

High volume water jet

Carbon dioxide (CO2)

Foam Sand

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

Thermal decomposition can lead to release of irritating gases

and vapours.

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod: :

ucts

Nitrogen oxides (NOx)

Carbon oxides

5.3 Advice for firefighters

Special protective equipment:

for firefighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Collect contaminated fire extinguishing water separately. This

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

The product itself does not burn.

#### **SECTION 6: Accidental release measures**

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

Personal precautions : Use personal protective equipment.

Avoid contact with skin, eyes and clothing. Wash contaminated clothing before re-use.

Avoid breathing dust.

For personal protection see section 8. For disposal considerations see section 13.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

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

Methods for cleaning up : Pick up and transfer to properly labelled containers.

### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

### **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

Wear personal protective equipment. Keep away from combustible material.

Keep away from heat and sources of ignition.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Dispose of rinse water in accordance with local and national

regulations.

Advice on protection against :

fire and explosion

The product is not flammable.

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

hands before eating, drinking, or smoking. Wash hands before

breaks and at the end of workday.

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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7.2 Conditions for safe storage, including any incompatibilities

Further information on stor-

age conditions

Keep away from sources of ignition - No smoking. Keep away

from direct sunlight. Protect from moisture.

Advice on common storage : Keep away from combustible materials.

Keep away from strong acids. Keep away from strong bases.

Keep away from food, drink and animal feedingstuffs.

Storage class (TRGS 510) : 5.1C

Further information on stor-

age stability

Protect from frost, heat and sunlight.

7.3 Specific end use(s)

Specific use(s) : Not relevant

# **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	10043-35-3	MAK (inhalable fraction)	10 mg/m3	DE DFG MAK		
	Further information: According to currently available information damage to the embryo or foetus cannot be excluded after exposure to concentrations at the level of the MAK and BAT values					
		AGW (Inhalable fraction)	0,5 mg/m3 (Borate)	DE TRGS 900		
	Peak-limit: excursion factor (category): 2;(I)					
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child					

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields

Hand protection

Material : Gloves

Directive : Equipment should conform to EN 374

Remarks : As the product is a mixture of several substances, the dura-

bility of the glove materials cannot be calculated in advance

and has to be tested before use.

Skin and body protection : Long sleeved clothing

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Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Equipment should conform to EN 14387

Filter type : Filter type P

Protective measures : Handle in accordance with good industrial hygiene and safety

practice.

Wash contaminated clothing before re-use.

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

9.1 Information on basic physical and chemical properties

Physical state : solid

Colour : green

Odour : none

Melting point/range : not determined

Boiling point/boiling range : not determined

Flammability : Will not burn

Upper explosion limit / Upper

flammability limit

Not applicable

Lower explosion limit / Lower

flammability limit

Not applicable

Flash point : Not applicable

Auto-ignition temperature : does not ignite

Decomposition temperature : > 130 °C

To avoid thermal decomposition, do not overheat.

pH : ca. 4,5

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Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

Not applicable

Density : not determined

Bulk density : ca. 975 kg/m<sup>3</sup>

Particle characteristics

Particle Size Distribution :  $D50 = 400 \mu m \pm 80 \mu m$ 

Measurement technique: Sieve analysis

9.2 Other information

Explosives : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Self-ignition : not auto-flammable

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : None reasonably foreseeable.

Heating can release hazardous gases.

10.4 Conditions to avoid

Conditions to avoid : Hot surface(s)

Direct sources of heat.

### 10.5 Incompatible materials

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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Materials to avoid : Strong bases

Organic materials Strong acids Powdered metals

#### 10.6 Hazardous decomposition products

Hazardous decomposition : Oxides of phosphorus products : Nitrogen oxides (NOx)

# **SECTION 11: Toxicological information**

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

### **Acute toxicity**

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

### **Components:**

boric acid:

Acute oral toxicity : Assessment: The substance or mixture has no acute oral tox-

icity

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

tion toxicity

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

toxicity

### Skin corrosion/irritation

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

### **Components:**

boric acid:

Assessment : No skin irritation

### Serious eye damage/eye irritation

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

# **Components:**

boric acid:

Assessment : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

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

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## Respiratory sensitisation

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

#### **Components:**

boric acid:

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

### Germ cell mutagenicity

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

#### **Components:**

boric acid:

sessment

Germ cell mutagenicity- As- : Weight of evidence does not support classification as a germ

cell mutagen.

### Carcinogenicity

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

### **Components:**

boric acid:

Carcinogenicity - Assess-

ment

: Not classifiable as a human carcinogen.

### Reproductive toxicity

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

### **Components:**

boric acid:

Remarks: Clear evidence of adverse effects on sexual func-Effects on fertility

tion and fertility, and/or on development, based on animal

experiments

Reproductive toxicity - As-

sessment

Clear evidence of adverse effects on sexual function and fertil-

ity, and/or on development, based on animal experiments

No effects on or via lactation

# STOT - single exposure

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

#### **Components:**

boric acid:

Assessment : The substance or mixture is not classified as specific target

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organ toxicant, single exposure.

#### STOT - repeated exposure

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

### **Components:**

boric acid:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

### **Aspiration toxicity**

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

### **Components:**

#### boric acid:

No aspiration toxicity classification

### 11.2 Information on other hazards

### **Endocrine disrupting properties**

### **Product:**

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

# **Components:**

boric acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 79,7 mg/l

Remarks: Boron

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 91 mg/l

Remarks: Boron

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (microalgae)): 52,4

mg/l

Remarks: Boron

Toxicity to fish (Chronic tox-

icity)

NOEC: 6,4 mg/l

Species: Danio rerio (zebra fish)

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Remarks: Boron

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC: 14,2 mg/l

Species: Daphnia magna (Water flea)

Remarks: Boron

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### **Components:**

boric acid:

Partition coefficient: n-

octanol/water

: log Pow: -1,09 (22 °C)

## 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

### **Components:**

boric acid:

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).

Substance is not very persistent and very bioaccumulative

(vPvB).

#### 12.6 Endocrine disrupting properties

Product:

Assessment : The substance/mixture does not contain components consid-

ered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at

levels of 0.1% or higher.

# 12.7 Other adverse effects

No data available

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

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## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system.

Dispose of in accordance with local regulations.

Waste codes should be assigned by the user based on the

application for which the product was used.

Contaminated packaging : Empty remaining contents.

Empty containers should be taken to an approved waste han-

dling site for recycling or disposal.

### **SECTION 14: Transport information**

#### 14.1 UN number or ID number

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA\_P : Not regulated as a dangerous good

## 14.2 UN proper shipping name

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA\_P : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good
IMDG : Not regulated as a dangerous good
IATA\_P : Not regulated as a dangerous good

#### 14.4 Packing group

ADN : Not regulated as a dangerous good
ADR : Not regulated as a dangerous good
RID : Not regulated as a dangerous good

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IMDG : Not regulated as a dangerous goodIATA (Cargo) : Not regulated as a dangerous goodIATA\_P (Passenger) : 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

Regulatory basis : IMSBC Code

Remarks : Product is not allowed to be transported in bulk.

### **SECTION 15: Regulatory information**

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

REACH - Restrictions on the manufacture, placing on

the market and use of certain dangerous substances,

mixtures and articles (Annex XVII)

REACH - Candidate List of Substances of Very High : boric acid

Concern for Authorisation (Article 59).

Regulation (EC) No 1005/2009 on substances that de- : Not applicable

plete the ozone layer

Regulation (EU) 2019/1021 on persistent organic pollu- : Not applicable

tants (recast)

REACH - List of substances subject to authorisation : Not applicable

(Annex XIV)

Regulation (EU) 2019/1148 on the marketing and use of explosives precursors

This product is regulated by Regulation (EU) 2019/1148: all suspicious transactions, and significant disappearances and thefts should be reported to the relevant national contact point.

potassium nitrate (ANNEX II) ammonium nitrate (ANNEX I)

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

: Not applicable

Water hazard class (Germa: WGK 1 slightly hazardous to water

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ny) Classification according to AwSV, Annex 1 (5.2)

### 15.2 Chemical safety assessment

Not relevant

### **SECTION 16: Other information**

#### **Full text of H-Statements**

H360FD : May damage fertility. May damage the unborn child.

#### Full text of other abbreviations

Repr. : Reproductive toxicity

DE DFG MAK : Germany. MAK BAT Annex IIa

DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.

DE DFG MAK / MAK : MAK value

DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; 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; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; 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; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; 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; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI -Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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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.

DE / EN