

# SAFETY DATA SHEET

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



## Basfoliar 19-19-19 SP

Version	Revision Date:	SDS Number:	Date of last issue: 13.01.2025
1.1	27.01.2025	M0305	Date of first issue: 13.01.2025

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

#### 1.1 Product identifier

Trade name : Basfoliar 19-19-19 SP

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

Use of the Sub-  
stance/Mixture : Fertiliser

#### 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.

#### 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

Further information : German "Hazardous Substances" legislation ( Gefahrstoffverordnung) appendix I, No. 5 (Ammonium Nitrate group C III)

#### 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.

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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. Index-No. Registration number	Classification	Concentration (% w/w)
Zinc sulphate heptahydrate	7446-20-0 231-793-3 01-2119474684-27-XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1  Acute toxicity estimate  Acute oral toxicity: 1.710 mg/kg	$\geq 0,1 - < 0,25$

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

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- 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.  
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.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Water  
Dry chemical  
Water mist  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Unsuitable extinguishing media : High volume water jet  
Carbon dioxide (CO<sub>2</sub>)  
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- : Nitrogen oxides (NO<sub>x</sub>)



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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.

### 7.2 Conditions for safe storage, including any incompatibilities

Further information on storage 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 storage 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
Zinc sulphate heptahydrate	7446-20-0	MAK (measured as the alveolate fraction)	0,1 mg/m <sup>3</sup>	DE DFG MAK
		Further information: Zinc chloride: peak limit I(1), Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
		MAK (inhalable fraction)	2 mg/m <sup>3</sup>	DE DFG MAK
		Further information: Zinc chloride: peak limit I(1), Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		

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

Substance name	End Use	Exposure routes	Potential health effects	Value
ammonium sulphate	Workers	Skin contact	Long-term systemic effects	42,667 mg/kg
	Workers	Inhalation	Long-term systemic effects	11,167 mg/m <sup>3</sup>

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	Consumer use	Oral	Long-term systemic effects	6,4 mg/kg
	Consumer use	Skin contact	Long-term systemic effects	12,8 mg/kg
	Consumer use	Inhalation	Long-term systemic effects	1,667 mg/kg

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

Substance name	Environmental Compartment	Value
ammonium sulphate	Fresh water	0,312 mg/l
	Marine water	0,0312 mg/l
	Intermittent use/release	0,53 mg/l
	Soil	62,6 mg/kg
		16,12 mg/l
	Fresh water	0,063 mg/kg

## 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 durability of the glove materials cannot be calculated in advance and has to be tested before use.

Skin and body protection : Long sleeved clothing

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

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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. 5 (20 °C) Concentration: 100 g/l
Solubility(ies) Water solubility	:	soluble
Partition coefficient: n-octanol/water	:	Not applicable
Density	:	not determined
Bulk density	:	ca. 1.025 kg/m <sup>3</sup>

### 9.2 Other information

Explosives	:	Not explosive
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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

Materials to avoid : Strong bases  
Organic materials  
Strong acids  
Powdered metals

#### 10.6 Hazardous decomposition products

Hazardous decomposition products : Oxides of phosphorus  
Nitrogen oxides (NO<sub>x</sub>)

### 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:

##### Zinc sulphate heptahydrate:

Acute oral toxicity : LD50 (Rat): 1.710 mg/kg  
Assessment: Harmful if swallowed.  
Remarks: anhydrous substance

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



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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:**

##### **Zinc sulphate heptahydrate:**

Assessment : No skin irritation

### **Serious eye damage/eye irritation**

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

#### **Components:**

##### **Zinc sulphate heptahydrate:**

Assessment : Risk of serious damage to eyes.

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

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

#### **Respiratory sensitisation**

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

#### **Components:**

##### **Zinc sulphate heptahydrate:**

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:**

##### **Zinc sulphate heptahydrate:**

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### **Carcinogenicity**

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

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### Components:

#### **Zinc sulphate heptahydrate:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

#### **Reproductive toxicity**

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

### Components:

#### **Zinc sulphate heptahydrate:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

#### **STOT - single exposure**

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

### Components:

#### **Zinc sulphate heptahydrate:**

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

#### **STOT - repeated exposure**

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

### Components:

#### **Zinc sulphate heptahydrate:**

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:

#### **Zinc sulphate heptahydrate:**

No aspiration toxicity classification

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to

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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:

##### **Zinc sulphate heptahydrate:**

Toxicity to fish : LC50 : 315 µg/l  
Exposure time: 96 h

M-Factor (Acute aquatic toxicity) : 1

Toxicity to fish (Chronic toxicity) : NOEC: 1.480 µg/l  
Exposure time: 30 d

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 14 - 718 µg/l  
Exposure time: 21 d

M-Factor (Chronic aquatic toxicity) : 1

#### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

#### 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.

#### 12.6 Endocrine disrupting properties

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation

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(EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

## 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 handling 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 |

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### 14.4 Packing group

<b>ADN</b>	:	Not regulated as a dangerous good
<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA (Cargo)</b>	:	Not regulated as a dangerous good
<b>IATA_P (Passenger)</b>	:	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) : Not applicable

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

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)

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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

Water hazard class (Germany) : WGK 1 slightly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

### 15.2 Chemical safety assessment

Not relevant

## SECTION 16: Other information

### Full text of H-Statements

H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.

### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Aquatic Acute : Short-term (acute) aquatic hazard  
Aquatic Chronic : Long-term (chronic) aquatic hazard  
Eye Dam. : Serious eye damage  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE DFG MAK / MAK : MAK value

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

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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

### 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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