

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Ca Premium SL



Version: 1.0  
Date of last issue: -  
Date of first issue: 10.01.2024

Revision Date:  
10.01.2024

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

#### 1.1 Product identifier

Trade name : Basfoliar® Ca Premium SL

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

Use of the Substance/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)

Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

#### 2.2 Label elements

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

Hazard pictograms : The hazard pictogram for Corrosive (C), showing a red diamond with a white background. Inside the diamond, there is a black silhouette of a hand being poured over by a test tube, with a small flame or spark below the hand, indicating severe skin burns and eye damage.

Signal word : Danger

Hazard statements : H314 Causes severe skin burns and eye damage.

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Precautionary statements : P102 Keep out of reach of children.

**Prevention:**  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

**Response:**  
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/ doctor.

### 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 fertilizers.

#### Hazardous components

| Chemical name                      | CAS-No.<br>EC-No.<br>Registration number                 | Classification                         | Concentration<br>(% w/w) |
|------------------------------------|--|--|--------------------------|
| calcium chloride                   | 10043-52-4<br><br>233-140-8<br><br>01-2119494219-28-XXXX | Eye Irrit. 2; H319                     | >= 20 - < 60             |
| Nitric acid, ammonium calcium salt | 15245-12-2<br><br>239-289-5<br><br>01-2119493947-16-XXXX | Acute Tox. 4; H302<br>Eye Dam. 1; H318 | >= 3 - < 10              |

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|             |   |                                       |             |
|-------------|---|---------------------------------------|-------------|
| citric acid | 77-92-9<br>201-069-1<br>01-2119461715-35-XXXX | Eye Irrit. 2; H319<br>STOT SE 3; H335 | >= 2 - < 10 |
|-------------|---|---------------------------------------|-------------|

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:  
Obtain medical attention.
- In case of skin contact : Take off all contaminated clothing immediately.  
Wash off immediately with soap and plenty of water.  
Obtain medical attention.
- In case of eye contact : In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Obtain medical attention.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.

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

None known.

#### 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.  
Water  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Sand

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### 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.

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## SECTION 6: Accidental release measures

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

Personal precautions : Keep people away from and upwind of spill/leak.  
Wear personal protective equipment.  
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., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep away from heat.  
Avoid contact with skin and eyes.

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.

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

Requirements for storage areas and containers : Keep containers tightly closed in a cool, well-ventilated place.

Advice on common storage : Not relevant

Storage class (TRGS 510) : 8B, Non-combustible, corrosive hazardous materials

### 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

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

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

### 8.2 Exposure controls

#### Engineering measures

No special precautions required.

#### Personal protective equipment

Eye protection : Tightly fitting safety goggles (splash goggles) (EN 166)

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) -

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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.

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

Do not breathe vapour/spray.

Avoid contact with skin and eyes.

When using do not eat or drink.

### Environmental exposure controls

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

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : brown

Odour : No information available.

pH : 1,5, (20 °C)

: No data available

: No data available

Flash point : not determined

Evaporation rate : No data available

Upper explosion limit : No data available

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|  |   |
|--|---|
| Lower explosion limit                  | : No data available                                   |
| Vapour pressure                        | : No data available                                   |
| Relative vapour density                | : No data available                                   |
| Density                                | : 1,35 g/cm <sup>3</sup> (20 °C)                      |
| Solubility(ies)                        |   |
| Water solubility                       | : soluble   |
| Partition coefficient: n-octanol/water | : Not applicable                                      |
| Auto-ignition temperature              | : No data available                                   |
| Decomposition temperature              | : No decomposition if stored and applied as directed. |
| Viscosity                              |   |
| Viscosity, dynamic                     | : No data available                                   |
| Explosive properties                   | : No data available                                   |
| Oxidizing properties                   | : No data available                                   |

### 9.2 Other information

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 normally.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.  
Keep away from heat and sources of ignition.

### 10.5 Incompatible materials

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Materials to avoid : None known.

### 10.6 Hazardous decomposition products

Hazardous decomposition products : nitrogen oxides

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

Acute inhalation toxicity : Remarks: Based on available data, the classification criteria are not met.

Acute dermal toxicity : Remarks: Based on available data, the classification criteria are not met.

##### Components:

##### **Nitric acid, ammonium calcium salt:**

Acute oral toxicity : LD50: > 300 mg/kg

Acute inhalation toxicity : Remarks: Not relevant because of low vapour pressure.  
Remarks: Not relevant because of low dust formation.

Acute dermal toxicity : LD50 (Rat): > 2.000 mg/kg  
Method: OECD Guideline 402

##### **citric acid:**

Acute oral toxicity : LD50 Oral (Rat): 3.000 mg/kg

#### Skin corrosion/irritation

##### Product:

Result: Causes severe skin burns and eye damage.

##### Components:

##### **Nitric acid, ammonium calcium salt:**

Species: Rabbit

Result: No skin irritation



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### Serious eye damage/eye irritation

**Product:**

Result: Serious eye damage

**Components:**

**Nitric acid, ammonium calcium salt:**

Species: Rabbit

Result: Irritating to eyes.

### Respiratory or skin sensitisation

**Product:**

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

### germ cell mutagenicity

**Product:**

Genotoxicity in vitro : Remarks: Based on available data, the classification criteria are not met.

### Carcinogenicity

**Product:**

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

### Reproductive toxicity

**Product:**

Effects on fertility : Remarks: Based on available data, the classification criteria are not met.

Effects on foetal development : Remarks: Based on available data, the classification criteria are not met.

### STOT - single exposure

**Product:**

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

### STOT - repeated exposure

**Product:**

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

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### 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

#### Components:

##### **Nitric acid, ammonium calcium salt:**

Toxicity to fish : LC50 (Guppy): 1.378 mg/l  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 490 mg/l

Toxicity to algae : LC50 (other aquatic plant): > 1.700 mg/l

##### **citric acid:**

Toxicity to fish : LC50 (golden orfe): 440 mg/l  
Exposure time: 96 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.535 mg/l  
Exposure time: 24 h

Toxicity to algae : (Scenedesmus quadricauda (Green algae)): 640 mg/l  
Exposure time: 7 DAY

Toxicity to bacteria : EC0 (Pseudomonas putida): 10.000 mg/l  
Exposure time: 16 h

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Inherently biodegradable.

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### Components:

#### **Nitric acid, ammonium calcium salt:**

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### Components:

#### **Nitric acid, ammonium calcium salt:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

### 12.4 Mobility in soil

#### Product:

Mobility : Remarks: Known distribution to environmental compartments

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: No data available

### 12.6 Endocrine disrupting properties

No data available

### 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 : In accordance with local and national regulations.  
Do not flush into surface water, groundwater or sanitary sewer system.

Contaminated packaging : Packs that cannot be cleaned should be disposed of in the same manner as the contents.

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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

Segregation 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

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

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 3 highly hazardous to water

Other regulations : This product is subject to Regulation (EU) 2019/1148; suspicious transactions, disappearance or theft of the product

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must be reported to the relevant authority.

### 15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

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### SECTION 16: Other information

#### Full text of H-Statements

H302 : Harmful if swallowed.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H335 : May cause respiratory irritation.

#### Full text of other abbreviations

Acute Tox. : Acute toxicity  
Eye Dam. : Serious eye damage  
Eye Irrit. : Eye irritation  
STOT SE : Specific target organ toxicity - single exposure

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - 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

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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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