

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® Top-N SL



Version: 1.5  
Date of last issue: 23.12.2022  
Date of first issue: 08.12.2016

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® Top-N SL

#### 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

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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

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

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### 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. EC-No. Registration number	Classification	Concentration (% w/w)
Urea, polymer with formaldehyde	9011-05-6		<= 20
Urea	57-13-6  200-315-5  01-2119463277-33-XXXX		<= 20

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.  
Remove and wash contaminated clothing before re-use.

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

In case of skin contact : Take off immediately all contaminated clothing.  
Wash thoroughly with soap and water.

In case of eye contact : Rinse thoroughly with plenty of water, also under the eyelids.

If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Obtain medical attention.

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

Symptoms : No information available.

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### 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 : 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 : Fire may cause evolution of:  
ammonia  
Carbon oxides  
Nitrogen oxides (NOx)

### 5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Use water spray to cool unopened containers.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.  
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 : Avoid contact with skin, eyes and clothing.  
Safety glasses

### 6.2 Environmental precautions

Environmental precautions : Do not allow uncontrolled discharge of product into the environment.

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

Methods for cleaning up : Soak up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).  
Shovel into suitable container for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

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## SECTION 7: Handling and storage

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### 7.1 Precautions for safe handling

- Advice on safe handling : Wear personal protective equipment.  
Wash hands before breaks and at the end of workday.  
Keep in a dry, cool and well-ventilated place.
- Hygiene measures : When using, do not eat, drink or smoke. Wash hands before  
breaks and at the end of workday.

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

- Requirements for storage areas and containers : Store at room temperature in the original container.
- Storage class (TRGS 510) : 12, Non Combustible Liquids
- Recommended storage temperature : 5 - 25 °C

### 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

Contains no substances with occupational exposure limit values.

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

Substance name	End Use	Exposure routes	Potential health effects	Value
Basfoliar® Top-N SL				
Remarks:	No data available			

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

Substance name	Environmental Compartment	Value
Basfoliar® Top-N SL		
Remarks:	No data available	

### 8.2 Exposure controls

#### Engineering measures

Ensure thorough ventilation of stores and work areas.

#### Personal protective equipment

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

Do not wear contact lenses.

Hand protection

Remarks : Chemical resistant protective gloves (EN 374). butyl rubber (butyl) - 0.7 mm coating thickness nitrile rubber (NBR) - 0.4 mm coating thickness

Skin and body protection : Wearing of closed work clothing is recommended.

Respiratory protection : No personal respiratory protective equipment normally required.

Use respiratory protective equipment when using this product at elevated temperatures (see section 8).

Respiratory protection complying with EN 141.

### Environmental exposure controls

General advice : Do not allow uncontrolled discharge of product into the environment.

Water : Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : slight

ammoniacal

pH : 7,8

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Melting point/range	: No data available
Boiling point/boiling range	: No data available
Flash point	: No data available
Evaporation rate	: No data available
Flammability (solid, gas)	: The product is not flammable.
Upper explosion limit	: Not explosive
Lower explosion limit	: Not explosive
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: 1,2 - 1,3 g/cm <sup>3</sup>
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: 560 °C
Decomposition temperature	: > 250 °C
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

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### 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 : No hazardous reactions if stored and handled as prescribed/indicated.

### 10.4 Conditions to avoid

Conditions to avoid : No dangerous reaction known under conditions of normal use.

### 10.5 Incompatible materials

Materials to avoid : No dangerous reaction known under conditions of normal use.

### 10.6 Hazardous decomposition products

No decomposition if stored normally.

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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: No data available

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

##### Components:

##### Urea:

Acute oral toxicity : LD50 (Rat): 14.300 mg/kg

#### Skin corrosion/irritation

##### Product:

Result: non-irritant

##### Components:

##### Urea:

Species: Rabbit

Method: OECD Test Guideline 404

Result: non-irritant

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### Serious eye damage/eye irritation

#### Product:

Remarks: May irritate eyes.

#### Components:

##### Urea:

Species: Rabbit  
Method: OECD Test Guideline 405  
Result: non-irritant

### Respiratory or skin sensitisation

#### Product:

Result: non-sensitizing

#### Components:

##### Urea:

Result: non-sensitizing

### germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: No data available

#### Components:

##### Urea:

Genotoxicity in vitro : Remarks: Contains no hazardous ingredients according to GHS

### Carcinogenicity

#### Product:

Remarks: Contains no ingredient listed as a carcinogen

#### Components:

##### Urea:

Remarks: Contains no ingredient listed as a carcinogen

### Reproductive toxicity

#### Product:

Effects on fertility :



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Remarks: No toxicity to reproduction

Effects on foetal  
development

: Remarks: Contains no ingredient listed as toxic to  
reproduction

### Components:

#### **Urea:**

Effects on fertility

:  
Remarks: No toxicity to reproduction

Effects on foetal  
development

: Remarks: Contains no ingredient listed as toxic to  
reproduction

### **STOT - single exposure**

#### Product:

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

### Components:

#### **Urea:**

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.

### Components:

#### **Urea:**

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

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### Further information

No data available

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

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

Toxicity to algae : Remarks: No data available

#### Components:

##### **Urea, polymer with formaldehyde:**

Toxicity to fish : Remarks: No data available

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

Toxicity to algae : Remarks: No data available

##### **Urea:**

Toxicity to fish : LC50 (golden orfe): 6.810 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia (water flea)): > 10.000 mg/l  
Exposure time: 48 h  
Test Type: static test

Toxicity to algae : (Scenedesmus quadricauda (Green algae)): > 10.000 mg/l  
Exposure time: 8 h  
Test Type: other

Toxicity to bacteria : EC20 (Pseudomonas putida): ca. > 10.000 mg/l  
Exposure time: 16 h  
Test Type: other  
Remarks: Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

### 12.2 Persistence and degradability

#### Product:

Biodegradability : Remarks: Inherently biodegradable.

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### Components:

#### **Urea, polymer with formaldehyde:**

Biodegradability : Remarks: The product works in the soil as fertilizer and is diminished in a few weeks.

#### **Urea:**

Biodegradability : Remarks: Readily biodegradable, according to appropriate OECD test.

Physico-chemical  
removability : DOC reduction  
ca. 96 %  
Remarks: May be eliminated in purification plants

### 12.3 Bioaccumulative potential

#### Product:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

### Components:

#### **Urea, polymer with formaldehyde:**

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

#### **Urea:**

Bioaccumulation : Remarks: Because of the n-octanol/water distribution coefficient (log Pow) accumulation in organisms is possible.

Partition coefficient: n-  
octanol/water : log Pow: ca. -1,59

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: Not applicable

### Components:

#### **Urea:**

Assessment : Remarks: No data available

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### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : Do not flush into surface water or sanitary sewer system.

#### Components:

##### Urea:

Additional ecological information : There is a high probability that the product is acute not harmful to aquatic organisms.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.  
Do not flush into surface water or sanitary sewer system.

Contaminated packaging : 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

Remarks : Not relevant

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## SECTION 15: Regulatory information

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

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

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

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## SECTION 16: Other information

### Full text of other abbreviations

(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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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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