

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

---

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

#### 1.1 Product identifier

Trade name : Basfoliar® MnZn Premium 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

---

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

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

Skin corrosion, Category 1	H314: Causes severe skin burns and eye damage.
Specific target organ toxicity - repeated exposure, Category 2	H373: May cause damage to organs through prolonged or repeated exposure.
Chronic aquatic toxicity, Category 2	H411: Toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

Hazard pictograms

:



Signal word

: Danger

Hazard statements

: H411 Toxic to aquatic life with long lasting effects.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H314 Causes severe skin burns and eye damage.

Precautionary statements

: **Prevention:**  
P280 Wear protective gloves/ eye protection/ face protection.  
**Response:**  
P391 Collect spillage.  
P303 + P361 + P353 + P310 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor/ physician.  
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 or doctor/ physician.  
**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 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. EC-No. Registration number	Classification	Concentration (% w/w)

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

Zinc nitrate	7779-88-6 231-943-8	Ox. Sol. 2; H272 Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 10 - <= 20
manganese sulphate (1:1)	7785-87-7 232-089-9 01-2119456624-35-XXXX	STOT RE 2; H373 Aquatic Chronic 2; H411 Eye Dam. 1; H318	>= 10 - <= 20

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2  
 Date of last issue: 23.12.2022  
 Date of first issue: 20.07.2022

Revision Date:  
 06.04.2023

nitric acid (except smoking)	7697-37-2 231-714-2	Acute Tox. 3; H331 Ox. Liq. 3; H272 Skin Corr. 1A; H314	<= 1
		specific concentration limit	
		Ox. Liq. 3 ≥ 65 % Skin Corr. 1A ≥ 20 % Skin Corr. 1B 5 - < 20 %	
		Acute toxicity estimate  Acute inhalation toxicity: 2,65 mg/l	

Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

orthophosphoric acid	7664-38-2	Skin Corr. 1B; H314	>= 1 - <= 5
	231-633-2		
	01-2119485924-24-XXXX	specific concentration limit	
		Skin Corr. 1B; H314	
		>= 25 %	
		Skin Irrit. 2; H315	
		10 - < 25 %	
		Eye Irrit. 2; H319	
		10 - < 25 %	

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- If inhaled : If breathed in, move person into fresh air.
- In case of skin contact : Wash off with soap and water.
- In case of eye contact : Immediately flush eye(s) with plenty of water.  
If symptoms persist, seek medical advice.
- If swallowed : Rinse mouth with water.  
Drink 1 or 2 glasses of water.  
If symptoms persist, seek medical advice.

### 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.

## SECTION 5: Firefighting measures

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

### 5.1 Extinguishing media

Suitable extinguishing media : In case of fire, use water/water spray/water jet/carbon dioxide/sand/foam/alcohol resistant foam/chemical powder for extinction.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : Not relevant

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

Specific hazards during firefighting : In case of combustion evolution of dangerous gases possible.  
nitrogen oxides  
ammonia

### 5.3 Advice for firefighters

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

Further information : The product is not flammable.

---

## SECTION 6: Accidental release measures

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

Personal precautions : Avoid contact with skin, eyes and clothing.

### 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains, surface water or subsoil water.

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

Methods for cleaning up : Allow to solidify, use mechanical handling equipment.  
Shovel into suitable container for disposal.

### 6.4 Reference to other sections

For personal protection see section 8.

---

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Do not eat, drink or smoke when using this product.  
Wash hands before breaks and at the end of workday.

Hygiene measures : Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of workday.

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

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

- Requirements for storage areas and containers : Protect from atmospheric humidity. Keep away from direct sunlight. Keep in a cool, well ventilated place away from reducing agents.
- Advice on common storage : Segregate from reducing agents.  
Keep away from food, drink and animal feedingstuffs.
- Storage class (TRGS 510) : 12, Non Combustible Liquids 8B, Non-combustible, corrosive hazardous materials
- Recommended storage temperature : 20 - 25 °C
- Other data : Protect against falling below the following temperature: -5°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

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
manganese sulphate (1:1)	manganese sulphate	(Inhalable fraction)	0,5 mg/m <sup>3</sup>	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Inhalable fraction)	0,5 mg/m <sup>3</sup> (Manganese)	DE TRGS 900
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., The threshold value is based on the element content of the corresponding metal., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
			0,5 mg/m <sup>3</sup>	
nitric acid (except smoking)	7697-37-2	STEL	1 ppm 2,6 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative			
		STEL	1 ppm 2,6 mg/m <sup>3</sup>	DE TRGS 900
		TLV value:	2 ml/m <sup>3</sup>	

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

		(Inhalable fraction)	5,2 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

### Occupational exposure limits of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Ammonia	7664-41-7, 7664-41-7	TWA	20 ppm 14 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
		STEL	50 ppm 36 mg/m <sup>3</sup>	2000/39/EC
Further information	Indicative			
			20 ppm 14 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
Further information	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			
Mangansulfat	7785-87-7, 7785-87-7	manganese: 20 µg/l (Blood)	Immediately after exposition or after working hours, In case of long-term exposition: after	TRGS 903



# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

			more than one shift	
--	--	--	---------------------	--

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

Substance name	End Use	Exposure routes	Potential health effects	Value
nitric acid (except smoking)	Workers	Inhalation	systemic effects	2,6 mg/m <sup>3</sup>
Remarks:	Exposure time: 10 min			
	Consumers	Inhalation	systemic effects	1,3 mg/m <sup>3</sup>

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

Substance name	Environmental Compartment	Value
nitric acid (except smoking)		
Remarks:	No data available	

## 8.2 Exposure controls

### Engineering measures

Ensure thorough ventilation of stores and work areas.

### Personal protective equipment

Eye protection : Safety glasses

Hand protection

Remarks : Protective gloves

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

Respiratory protection : No personal respiratory protective equipment normally required.

respiratory protection only if aerosol or dust is formed.

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

### Environmental exposure controls

General advice : Do not let product enter drains, surface water or subsoil water.

---

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	: liquid
Colour	: beige
Odour	: odourless, faint odour, ammoniacal
Odour Threshold	: No data available
pH	: ca. 0,7, (20 °C)
Melting point/range	: No data available
Boiling point/boiling range	: > 100 °C
Flash point	: Not applicable
Evaporation rate	: No data available
Flammability (solid, gas)	: does not ignite
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: No data available
Relative vapour density	: No data available
Density	: No data available
Solubility(ies)	
Water solubility	: soluble
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity	

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

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
-----------------	---------------------

---

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Stable under recommended storage conditions.  
No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.  
No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Hazardous reactions	: Reacts with reducing agents.
---------------------	--------------------------------

### 10.4 Conditions to avoid

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

### 10.5 Incompatible materials

Materials to avoid	: Strong reducing agents
--------------------	--------------------------

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed., No hazardous decomposition products are known.

---

## SECTION 11: Toxicological information

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

#### Acute toxicity

##### Product:

Acute oral toxicity	: LD50 Oral (Rat): > 2.000 mg/kg
---------------------	----------------------------------

##### Components:

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

### **Zinc nitrate:**

Acute oral toxicity : LD50 Oral (Rat): 1.190 mg/kg

### **manganese sulphate (1:1):**

Acute oral toxicity : LD50 (Rat): 2.150 mg/kg

### **nitric acid (except smoking):**

Acute inhalation toxicity : LC50 (Rat): 1,56 mg/m<sup>3</sup>  
Exposure time: 4 h  
Method: OECD Test Guideline 403

Acute toxicity estimate: 2,65 mg/l  
Method: Converted acute toxicity point estimate

Acute dermal toxicity : Remarks: The toxicity of the product is based on its corrosivity.

### **orthophosphoric acid:**

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

### **Skin corrosion/irritation**

#### **Product:**

Result: No skin irritation

#### **Components:**

##### **Zinc nitrate:**

Species: Rabbit

Result: Skin irritation

##### **nitric acid (except smoking):**

Result: Corrosive

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

#### **Product:**

Remarks: slight irritation

#### **Components:**

##### **Zinc nitrate:**

Result: Eye irritation

##### **nitric acid (except smoking):**

Result: Corrosive

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

### Respiratory or skin sensitisation

#### Product:

Result: non-sensitizing

#### Components:

##### **Zinc nitrate:**

Result: non-sensitizing

### germ cell mutagenicity

#### Product:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects  
The product has not been tested. The information is derived  
from the properties of the individual components.

#### Components:

##### **Zinc nitrate:**

Genotoxicity in vitro : Remarks: No data available

### Carcinogenicity

#### Product:

Remarks: Contains no ingredient listed as a carcinogen

#### Components:

##### **Zinc nitrate:**

Remarks: Did not show carcinogenic effects in animal experiments.

### Reproductive toxicity

#### Product:

Effects on fertility :  
Remarks: No toxicity to reproduction

Effects on foetal development : Remarks: Contains no ingredient listed as toxic to reproduction

#### Components:

##### **Zinc nitrate:**

Effects on fertility :  
Remarks: No toxicity to reproduction

Effects on foetal development : Remarks: Did not show teratogenic effects in animal experiments.

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

### 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.

### Repeated dose toxicity

#### Components:

##### **nitric acid (except smoking):**

Species: Rat

NOAEL: 1.500 mg/kg

Application Route: Oral

Exposure time: 1 DAY

### 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

---

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

Toxicity to fish : Remarks: No data available

#### Components:

##### **Zinc nitrate:**

Toxicity to fish : Remarks: No data available

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

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

### **manganese sulphate (1:1):**

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 30 mg/l

### **nitric acid (except smoking):**

Toxicity to fish : Remarks: No toxic effects occur within the range of solubility.

Toxicity to daphnia and other aquatic invertebrates : Remarks: No toxic effects occur within the range of solubility.

Toxicity to algae : Remarks: No data available

## **12.2 Persistence and degradability**

### **Product:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

### **Components:**

#### **Zinc nitrate:**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

#### **nitric acid (except smoking):**

Biodegradability : Remarks: The methods for determining the biological degradability are not applicable to inorganic substances.

## **12.3 Bioaccumulative potential**

### **Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.

### **Components:**

#### **nitric acid (except smoking):**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

## **12.4 Mobility in soil**

### **Product:**

Mobility : Remarks: No data available

Distribution among environmental compartments : Remarks: No data available

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

---

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : Remarks: Not applicable

#### Components:

##### Zinc nitrate:

Assessment : Remarks: Not applicable

### 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

#### Product:

Additional ecological information : May contribute to eutrophication in static waters, therefore should not be released into surface waters.

---

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.  
Do not flush into surface water or sanitary sewer system.

Contaminated packaging : If recycling is not practicable, dispose of in compliance with local regulations.

---

## SECTION 14: Transport information

### 14.1 UN number or ID number

ADN : UN 3264

ADR : UN 3264

RID : UN 3264

IMDG : UN 3264

IATA : UN 3264

### 14.2 UN proper shipping name

ADN : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(phosphoric acid)

ADR : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  
(phosphoric acid)

RID : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.



# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

	(phosphoric acid)
<b>IMDG</b>	: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (phosphoric acid)
<b>IATA</b>	: Corrosive liquid, acidic, inorganic, n.o.s. (phosphoric acid)

### 14.3 Transport hazard class(es)

<b>ADN</b>	: 8
<b>ADR</b>	: 8
<b>RID</b>	: 8
<b>IMDG</b>	: 8
<b>IATA</b>	: 8

### 14.4 Packing group

<b>ADN</b>	
Packing group	: III
Classification Code	: C1
Hazard Identification Number	: 80
Labels	: 8
<b>ADR</b>	
Packing group	: III
Classification Code	: C1
Hazard Identification Number	: 80
Labels	: 8
Tunnel restriction code	: (E)
<b>RID</b>	
Packing group	: III
Classification Code	: C1
Hazard Identification Number	: 80
Labels	: 8
<b>IMDG</b>	
Packing group	: III
Labels	: 8
EmS Code	: F-A, S-B
Segregation group	:
<b>IATA</b>	
Packing instruction (cargo aircraft)	: 856
Packing instruction (passenger aircraft)	: 852
Packing instruction (LQ)	: Y841
Packing group	: III
Labels	: 8

## Basfoliar® MnZn Premium SL



Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

---

### 14.5 Environmental hazards

#### ADN

Environmentally hazardous : yes

#### ADR

Environmentally hazardous : yes

#### RID

Environmentally hazardous : yes

#### IMDG

Marine pollutant : yes

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

---

## SECTION 15: Regulatory information

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

Water contaminating class : WGK 3 highly water endangering  
(Germany)

### 15.2 Chemical Safety Assessment

No data available

---

## SECTION 16: Other information

### Full text of H-Statements

H272	: May intensify fire; oxidizer.
H302	: Harmful if swallowed.
H314	: Causes severe skin burns and eye damage.
H315	: Causes skin irritation.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H331	: Toxic if inhaled.
H335	: May cause respiratory irritation.
H373	: May cause damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2

Date of last issue: 23.12.2022

Date of first issue: 20.07.2022

Revision Date:

06.04.2023

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Acute aquatic toxicity
Aquatic Chronic	: Chronic aquatic toxicity
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Ox. Liq.	: Oxidizing liquids
Ox. Sol.	: Oxidizing solids
Skin Corr.	: Skin corrosion
Skin Irrit.	: Skin irritation
STOT RE	: Specific target organ toxicity - repeated exposure
STOT SE	: Specific target organ toxicity - single exposure

(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

### 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

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.2  
Date of last issue: 23.12.2022  
Date of first issue: 20.07.2022

Revision Date:  
06.04.2023

---

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