according to Regulation (EC) No. 1907/2006

## Basfoliar® MnZn Premium SL



Version: 1.1 Revision Date:
Date of last issue: 10.01.2024 09.02.2024

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

#### 1.1 Product identifier

Trade name : Basfoliar® MnZn Premium SL

UFI : 4QV5-70K5-M00D-GPDX

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

Use of the : Fertiliser

Substance/Mixture

#### 1.3 Details of the supplier of the safety data sheet

Company : COMPO EXPERT GmbH

Krögerweg 10 D-48155 Münster

Telephone : +49 (0) 251 29 79 81 – 000

Telefax : +49 (0) 251 29 79 81 - 111

E-mail address of person responsible for the SDS

: info@compo-expert.com

#### 1.4 Emergency telephone number

GBK GmbH - Global Regulatory Compliance - 24h

Telephone: +49 (0) 6132 - 84463

#### **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

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

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.

Long-term (chronic) aquatic hazard,

Category 3

H412: Harmful to aquatic life with long lasting

effects.

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#### 2.2 Label elements

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

Hazard pictograms :





Signal word : Danger

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

H373 May cause damage to organs through

prolonged or repeated exposure.

H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : Prevention:

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

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.

Storage:

P405 Store locked up.

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 fertilzers.

### **Hazardous components**

Chemical name	CAS-No.	Classification	Concentration
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	EC-No. Registration number		(% w/w)
Mangan(II)sulfat-monohydrat	7785-87-7		>= 10 - < 25
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	>= 3 - < 20
citric acid	77-92-9 201-069-1 01-2119461715-35- XXXX	Eye Irrit. 2; H319 STOT SE 3; H335	>= 1 - < 10

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 immediately with soap and plenty of water while

removing all contaminated clothes and shoes.

Obtain medical attention.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Seek medical advice.

If swallowed : Rinse mouth with water.

Obtain medical attention.

## 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.

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## **SECTION 5: Firefighting measures**

## 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

for firefighters

Special protective equipment : 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., For disposal considerations see section 13.

#### **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.

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Hygiene measures : Avoid contact with skin, eyes and clothing. 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

: 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) : 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 of decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis		
Ammonia	7664-41-7,	TWA	20 ppm	2000/39/EC		
	7664-41-7		14 mg/m3			
Further information	Indicative					
		STEL	50 ppm	2000/39/EC		
			36 mg/m3			
Further information	Indicative					
			20 ppm	DE TRGS		
			14 mg/m3	900		
Peak-limit:	2;(I)					
excursion factor						
(category)						
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					

## 8.2 Exposure controls

## **Engineering measures**

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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.

Breathing apparatus only if aerosol or dust is formed.

**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 : pink

Odour : No information available.

Odour Threshold : No data available

pH : 0,8, (20 °C)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : No data available

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Evaporation rate : No data available

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1,3 g/cm<sup>3</sup>

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

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

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

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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 : 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:** 

Zinc nitrate:

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

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:**

Zinc nitrate: Species: Rabbit Result: Skin irritation

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## Serious eye damage/eye irritation

#### **Product:**

Result: Causes serious eye damage.

#### **Components:**

#### Zinc nitrate:

Result: Eye irritation

### Respiratory or skin sensitisation

#### **Product:**

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

## **Components:**

#### Zinc nitrate:

Result: non-sensitizing

### germ cell mutagenicity

#### **Product:**

Genotoxicity in vitro : Remarks: Based on available data, the classification criteria

are not met.

#### **Components:**

#### Zinc nitrate:

Genotoxicity in vitro : Remarks: No data available

### Carcinogenicity

#### **Product:**

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

## **Components:**

#### Zinc nitrate:

Remarks: Did not show carcinogenic effects in animal experiments.

#### Reproductive toxicity

## **Product:**

Effects on fertility :

Remarks: Based on available data, the classification criteria

are not met.

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Effects on foetal : Remarks: Based on available data, the classification criteria

development are not met.

Components:

Zinc nitrate: Effects on fertility

Remarks: No toxicity to reproduction

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

development experiments.

STOT - single exposure

**Product:** 

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

exposure.

STOT - repeated exposure

<u> Product:</u>

Assessment: May cause damage to organs through prolonged or 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

**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 : Remarks: No data available

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aquatic invertebrates

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: 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.

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

Distribution among

environmental compartments

: Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: Not applicable

**Components:** 

according to Regulation (EC) No. 1907/2006

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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 : Packaging that is not properly emptied must be disposed of as

the unused product.

Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being

thoroughly cleaned.

If recycling is not practicable, dispose of in compliance with

local regulations.

#### **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

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## 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

REACH - Candidate List of Substances of Very High : Not listed

Concern for Authorisation (Article 59).

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

#### 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.
H315 : Causes skin irritation.
H319 : Causes serious eve irritation

H319 : Causes serious eye irritation. H335 : May cause respiratory irritation.

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 Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
Skin Irrit. : Skin 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; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the

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Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN -Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx -Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID -Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory: TRGS - Technical Rule for Hazardous Substances: TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **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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