according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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

1.1 Product identifier

Trade name : Basfoliar® Zn Premium SL

UFI : CSU5-N0YT-700X-6X07

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 - single

exposure, Category 3

H335: May cause respiratory irritation.

Long-term (chronic) aquatic hazard,

Category 2

H411: Toxic to aquatic life with long lasting effects.

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:

Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P260 Do not breathe dust/ fume/ gas/ mist/

vapours/ spray.

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.

P391 Collect spillage.

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
	EC-No.		(% w/w)
	Registration number		

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

Zinc nitrate	7779-88-6	Ox. Sol. 2; H272 Acute Tox. 4; H302	>= 20 - <= 30
	231-943-8	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 Aquatic Acute 1; H400	
		Aquatic Chronic 1; H410	
manganese sulphate (1:1)	7785-87-7	STOT RE 2; H373 Aquatic Chronic 2;	>= 1 - <= 5
	232-089-9	H411 Eye Dam. 1; H318	
	01-2119456624-35-		
	XXXX		
citric acid	77-92-9	Eye Irrit. 2; H319 STOT SE 3; H335	>= 1 - <= 5
	201-069-1		
	01-2119461715-35- XXXX		

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Take off immediately all contaminated clothing.

If inhaled : Move to fresh air in case of accidental inhalation of fumes

from overheating or combustion.

By disorders:

Obtain medical attention.

In case of skin contact : Wash off immediately with soap and plenty of water.

In case of eye contact : Rinse thoroughly with plenty of water for at least 15 minutes

and consult a physician.

If symptoms persist, seek medical advice.

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

If swallowed, seek medical advice immediately and show this

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 **Revision Date:** Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

container or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Allergic appearance

Sensitisation

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

: The product is not flammable. 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

: In case of combustion evolution of dangerous gases possible.

5.3 Advice for firefighters

for firefighters

Special protective equipment : 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

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

Ensure adequate ventilation.

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).

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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 : Avoid contact with skin, eyes and clothing.

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.

7.2 Conditions for safe storage, including any incompatibilities

Further information on

storage conditions

: Keep containers tightly closed in a cool, well-ventilated place.

Advice on common storage : Not relevant

Storage class (TRGS 510) : 12, Non Combustible Liquids

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	Control parameters	Basis		
		of exposure)				
manganese	7785-87-7	(Inhalable	0,5 mg/m3	DE TRGS		
sulphate (1:1)		fraction)		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	0,5 mg/m3	DE TRGS		
		fraction)	(Manganese)	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					

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

	unborn child				
			0,5 mg/	/m3	
No data available					
Mangansulfat	7785-8 7785-8	manganese: (Blood)	20 μg/l	Immediately after exposure or after working hours, In case of long-term exposition: after more than one shift	TRGS 903

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

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

8.2 Exposure controls

Engineering measures

Provide adequate ventilation.

Personal protective equipment

Eye protection : Safety glasses

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) - 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

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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.

Skin and body protection : Protective suit

Respiratory protection : Breathing apparatus only if aerosol or dust is formed.

Environmental exposure controls

General advice : Do not empty into drains.

Product should not reach open waters.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : brown

Odour : very faint

pH : ca. 1,9, (20 °C)

melting range : ca. 0 °C

Boiling range : $ca. > 100 \, ^{\circ}C$

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : The product is not flammable.

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : No data available

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

Relative vapour density : No data available

Density : ca. 1,335 g/cm³ (20 °C)

Solubility(ies)

Water solubility : soluble

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : Not applicable

Decomposition temperature : To avoid thermal decomposition, do not overheat.

Viscosity

Viscosity, dynamic : 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

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is noticeably exceeded, the product may polymerise with heat evolution.

10.3 Possibility of hazardous reactions

10.4 Conditions to avoid

Conditions to avoid : No decomposition if stored and applied as directed.

10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

Strong bases

10.6 Hazardous decomposition products

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon oxides

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: This information is not available.

Components:

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

citric acid:

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

Skin corrosion/irritation

Product:

Result: Corrosive

Remarks: Calculation method

Components:

Zinc nitrate: Species: Rabbit Result: Skin irritation

Serious eye damage/eye irritation

Product:

Result: May cause irreversible eye damage.

Remarks: Calculation method

Components:

Zinc nitrate:

Result: Eye irritation

Respiratory or skin sensitisation

Product:

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

Remarks: May cause sensitisation of susceptible persons by skin contact.

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 : Remarks: Contains no ingredient listed as toxic to

development reproduction

Components:

Zinc nitrate:

Effects on fertility

Remarks: No toxicity to reproduction

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

development experiments.

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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

manganese sulphate (1:1):

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 30 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:

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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: Bioaccumulation is unlikely.

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: No data available

Components: Zinc nitrate:

Assessment : Remarks: Not applicable

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological : slightly hazardous to water

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

Neutralisation will reduce ecotoxic effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Must not be disposed together with household garbage. Do

not allow product to reach sewage system.

Fertiliser

Check if agriculture use is possible.

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

Contaminated packaging : 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 : UN 3082
ADR : UN 3082
RID : UN 3082
IMDG : UN 3082
IATA : UN 3082

14.2 UN proper shipping name

ADN : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Zinc nitrate, manganese sulphate)

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Zinc nitrate, manganese sulphate)

RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Zinc nitrate, manganese sulphate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Zinc nitrate, manganese sulphate)

IATA : Environmentally hazardous substance, liquid, n.o.s.

(Zinc nitrate, manganese sulphate)

14.3 Transport hazard class(es)

ADN : 9
ADR : 9
RID : 9
IMDG : 9
IATA : 9

14.4 Packing group

ADN

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

ADR

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9
Tunnel restriction code : (-)

RID

Packing group : III
Classification Code : M6
Hazard Identification Number : 90
Labels : 9

IMDG

Packing group : III
Labels : 9
EmS Code : F-A, S-F
Segregation group : : (-)

IATA

Packing instruction (cargo : 964

aircraft)

Packing instruction : 964

(passenger aircraft)

Packing instruction (LQ) : Y964
Packing group : III
Labels : 9

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

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Quantity 1 Quantity 2

E1 ENVIRONMENTAL 100 t 200 t

HAZARDS

Water hazard class

(Germany)

: WGK 3 highly hazardous to water

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: Other information

Full text of H-Statements

H272 : May intensify fire; oxidizer.
H302 : Harmful if swallowed.
H315 : Causes skin irritation.

H318 : Causes serious eye damage.
H319 : Causes serious eye irritation.
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.

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
Eye Irrit. : Eye irritation
Ox. Sol. : Oxidizing solids
Skin Irrit. : Skin irritation

STOT RE : Specific target organ toxicity - repeated exposure 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

according to Regulation (EC) No. 1907/2006

Basfoliar® Zn Premium SL



Version: 1.5 Revision Date:
Date of last issue: 06.04.2023 08.02.2024

Date of first issue: 14.09.2021

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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