according to Regulation (EC) No. 1907/2006

Basfoliar® Excellent Flo



Version: 1.4 Revision Date:
Date of last issue: 23.12.2022 07.04.2023

Date of first issue: 06.08.2020

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

1.1 Product identifier

Trade name : Basfoliar® Excellent Flo

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

Use of the : Fertilizer

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)

Chronic aquatic toxicity, Category 3 H412: Harmful to aquatic life with long lasting

effects.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard statements : H412 Harmful to aquatic life with long lasting

effects.

Precautionary statements : **Disposal:**

P501 Dispose of contents/ container to an

approved incineration plant.

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Additional Labelling:

EUH208 Contains 1,2-Benzisothiazol-3(2H)-one. May produce an allergic reaction.

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
Chemical Name		Ciassilication	
	EC-No.		(% w/w)
	Registration number		
zinc oxide	1314-13-2	Aquatic Acute 1; H400	>= 1 - < 5
	215-222-5	Aquatic Chronic 1; H410	
	01-2119463881-32-		
	XXXX		
Ethylene glycol	107-21-1	Acute Tox. 4; H302	>= 1 - <= 5
	203-473-3		
		Acute toxicity	
		estimate	
		Cotimate	
		Acute oral toxicity:	
		500 mg/kg	

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1,2-benzisothiazol-3(2H)-one	2634-33-5	Acute Tox. 4; H302 Skin Irrit. 2; H315	>= 0,005 - <= 0,01	
	220-120-9	Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400	0,01	
		specific		
		concentration limit		
		Skin Sens. 1; H317		
		>= 0,05 %		
		Acute toxicity		
		estimate		
		Acute oral toxicity:		
		500 mg/kg		

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.

Seek medical attention.

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.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : Vomiting

> Diarrhoea Severe irritation Erythema

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 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

: Evolution of toxic gases/vapours.

firefighting

nitrogen oxides ammonia

5.3 Advice for firefighters

Further information

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

for firefighters

: 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.

Use personal protective equipment.

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

: Allow to solidify, use mechanical handling equipment. Methods for cleaning up

according to Regulation (EC) No. 1907/2006

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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.

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.

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

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
zinc oxide	1314-13-2		2 mg/m3	
Ethylene glycol	107-21-1		10 ppm 26 mg/m3	DE TRGS 900
Peak-limit: excursion factor (category)	2;(I)			
		STEL	40 ppm 104 mg/m3	
		TWA	20 ppm 52 mg/m3	
			10 ml/m3	TRGS 900

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26 mg/m3	(DE)

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

Substance name	End Use	Exposure routes	Potential health effects	Value
zinc oxide	Workers	Inhalation	Long-term exposure	5 mg/m3
	Workers	Ingestion	Long-term exposure, Systemic effects	0,8 mg/kg
	Workers	Skin contact	Long-term exposure, Systemic effects	83 mg/kg

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

			I
Substance name		Environmental Compartment	Value
zinc oxide		Fresh water	0,0206 mg/l
		Marine water	0,0061 mg/l
Remarks:	Derivation of the PNEC, Zinc		
		Fresh water sediment	235,6 mg/l
Derivation of the PNEC, Zinc			
		Marine sediment	113 mg/l
Derivation of the PNEC, Zinc			
		Soil	106,8 mg/l
	Derivation of the PNEC, Zinc		
		Behaviour in waste water treatment plants	0,052 mg/l
	Derivation of the PNEC, Zinc		

8.2 Exposure controls

Engineering measures

Ensure thorough ventilation of stores and work areas.

Personal protective equipment

Eye protection : Safety glasses

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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.

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

Odour Threshold : No data available

pH : 8,5 - 9,5, Concentration: 10 g/cm³ (20 °C)

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : The product is not flammable.

Evaporation rate : No data available

Flammability (solid, gas) : does not ignite

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

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Vapour pressure : No data available

Relative vapour density : No data available

Density : 1,6 g/cm³ (20 °C)

Solubility(ies)

Water solubility : soluble

Solubility in other solvents : soluble

Solvent: glycols

partly soluble Solvent: Alcohol

Partition coefficient: n-

octanol/water

: Not applicable

Auto-ignition temperature : Not applicable

Decomposition temperature : No decomposition if stored and applied as directed.

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

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

No decomposition if stored and applied as directed.

according to Regulation (EC) No. 1907/2006

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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 normally.

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): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 4,35 mg/l

Exposure time: 4 h

Acute dermal toxicity : LD50 (Rat): 2.466 mg/kg

Components:

zinc oxide:

Acute oral toxicity : LD50 (Rat): > 5.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,7 mg/l

Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : Remarks: No data available

Ethylene glycol:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2 ppm

Acute dermal toxicity : LD50 (mouse): > 3.500 mg/kg

1,2-benzisothiazol-3(2H)-one:

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg

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Skin corrosion/irritation

Product:

Result: irritating

Components:

zinc oxide:

Remarks: non-irritant

Serious eye damage/eye irritation

Product:

Remarks: May irritate eyes.

Components:

zinc oxide:

Method: OECD Test Guideline 405

Remarks: non-irritant

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

Components:

zinc oxide:

Method: OECD Test Guideline 406

Remarks: Did not cause sensitisation on laboratory animals.

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 oxide:

Germ cell mutagenicity-

Assessment

: In vivo tests did not show mutagenic effects

Carcinogenicity

Product:

according to Regulation (EC) No. 1907/2006

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Remarks: Contains no ingredient listed as a carcinogen

Components:

zinc oxide:

Carcinogenicity - : According to experience not expected

Assessment

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 oxide:

Reproductive toxicity - : No toxicity to reproduction

Assessment No experimental indication of genotoxic effects.

STOT - single exposure

Product:

Assessment: May cause respiratory irritation.

Components:

zinc oxide:

Remarks: This information is not available.

STOT - repeated exposure

Product:

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

Components:

zinc oxide:

Remarks: No known effect.

Aspiration hazard

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

11.2 Information on other hazards

according to Regulation (EC) No. 1907/2006

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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 oxide:

Toxicity to fish : LC50 (Fish): 0,14 mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 2,2 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Selenastrum capricornutum (green algae)): 0,17 mg/l

Exposure time: 72 h Test Type: static test

1,2-benzisothiazol-3(2H)-one:

Toxicity to fish : LC50 (Salmo trutta (brown trout)): = 2,18 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): = 2,18 mg/l

Exposure time: 48 h

Toxicity to algae : ErC50 (Pseudokirchneriella subcapitata (green algae)): = 0,11

mg/l

Exposure time: 72 h

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The methods for determining the biological

degradability are not applicable to inorganic substances.

Components:

zinc oxide:

Biodegradability : Remarks: The methods for determining biodegradability are

according to Regulation (EC) No. 1907/2006

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not applicable to inorganic substances.

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : Remarks: Not applicable

Components: zinc oxide:

Assessment : Non-classified PBT substance.

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological

information

: An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

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

Not regulated as a dangerous good

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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

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

(Germany)

: WGK 1 slightly water endangering

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this product.

SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed. H315 : Causes skin irritation.

H317 : May cause an allergic skin reaction.
H318 : Causes serious eye damage.
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 : Acute aquatic toxicity
Aquatic Chronic : Chronic aquatic toxicity
Eye Dam. : Serious eye damage
Skin Irrit. : Skin irritation

Skin Irrit. : Skin irritation
Skin Sens. : Skin sensitisation

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(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 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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