

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

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

#### 1.1 Product identifier

Trade name : Basfoliar® Triple Flo

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

Use of the Sub-  
stance/Mixture : Fertiliser

#### 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)

Short-term (acute) aquatic hazard, Category 1      H400: Very toxic to aquatic life.

Long-term (chronic) aquatic hazard, Category 1      H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

Hazard statements : H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements : **Response:**  
P391 Collect spillage.

**Disposal:**  
P501 Dispose of contents/ container to an approved waste disposal plant.

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Inorganic fertiliser

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32-XXXX	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 20 - < 25
dicopper chloride trihydroxide	1332-65-6 215-572-9 029-017-00-1 01-2119966120-46-XXXX	Acute Tox. 3; H301 Acute Tox. 4; H332 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 10 M-Factor (Chronic	>= 2,5 - < 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

		aquatic toxicity): 10	
		Acute toxicity estimate	
		Acute oral toxicity: 299 mg/kg	
ethanediol	107-21-1 203-473-3 603-027-00-1 01-2119456816-28-XXXX	Acute Tox. 4; H302	>= 1 - < 10
1,2-benzisothiazol-3(2H)-one	2634-33-5 220-120-9 613-088-00-6 01-2120761540-60-XXXX	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Irrit. 2; H315 Eye Dam. 1; H318 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,0025 - < 0,025
		M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	
		specific concentration limit Skin Sens. 1A; H317 >= 0,036 %	
		Acute toxicity estimate	
		Acute oral toxicity: 450 mg/kg Acute inhalation toxicity (dust/mist): 0,21 mg/l	

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 the case of inhalation of aerosol/mist consult a physician if

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

necessary.

- 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 eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Do NOT induce vomiting.

### 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 : Water  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Sand

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide

### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.  
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Avoid contact with skin, eyes and clothing.  
Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
For personal protection see section 8.  
For disposal considerations see section 13.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water.  
Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.

#### 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).

#### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Avoid contact with skin and eyes.  
Wear personal protective equipment.  
Smoking, eating and drinking should be prohibited in the ap-  
plication area.  
Dispose of rinse water in accordance with local and national  
regulations.

Advice on protection against : No special precautions required.  
fire and explosion

Hygiene measures : Keep away from food, drink and animal feedingstuffs. Wash  
hands before eating, drinking, or smoking. Wash hands before  
breaks and at the end of workday.

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

Further information on stor- : Keep container tightly closed and in a well-ventilated place.  
age conditions

Advice on common storage : Keep away from food, drink and animal feedingstuffs.

---

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

Storage class (TRGS 510) : 12

Recommended storage temperature : 5 - 30 °C

Further information on storage stability : Protect from frost, heat and sunlight.

### 7.3 Specific end use(s)

Specific use(s) : Not relevant

## 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	MAK (measured as the alveolate fraction)	0,1 mg/m <sup>3</sup>	DE DFG MAK
		Further information: Zinc chloride: peak limit I(1), Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
		MAK (inhalable fraction)	2 mg/m <sup>3</sup>	DE DFG MAK
		Further information: Zinc chloride: peak limit I(1), Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
dicopper chloride trihydroxide	1332-65-6	MAK (measured as the alveolate fraction)	0,01 mg/m <sup>3</sup>	DE DFG MAK
		Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
ethanediol	107-21-1	TWA	20 ppm 52 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		STEL	40 ppm 104 mg/m <sup>3</sup>	2000/39/EC
		Further information: Identifies the possibility of significant uptake through the skin, Indicative		
		MAK	10 ppm 26 mg/m <sup>3</sup>	DE DFG MAK
		Further information: Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed		
		AGW (Vapour and aerosols)	10 ppm 26 mg/m <sup>3</sup>	DE TRGS 900

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

	Peak-limit: excursion factor (category): 2;(I)
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child

### 8.2 Exposure controls

#### Personal protective equipment

- Eye/face protection : Safety glasses with side-shields conforming to EN166
- Hand protection
- Material : Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374.
- Break through time : > 480 min
- Glove thickness : > 0,3 mm
- Directive : Equipment should conform to EN 374
- Remarks : The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. As the product is a mixture of several substances, the durability of the glove materials cannot be calculated in advance and has to be tested before use.
- Skin and body protection : Long sleeved clothing
- Respiratory protection : Do not breathe vapours or spray mist.  
In the case of dust or aerosol formation use respirator with an approved filter.  
Equipment should conform to EN 14387
- Filter type : Combined particulates, inorganic and acidic gas/vapour, ammonia/amines and organic vapour type (ABEK-P)
- Protective measures : Handle in accordance with good industrial hygiene and safety practice.  
Wash contaminated clothing before re-use.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- Physical state : liquid
- Colour : blue green
- Odour : none
- Melting point/range : ca. 0 °C

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

Boiling point/boiling range : ca. 100 °C

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : Not applicable

Auto-ignition temperature : does not ignite

pH : 8 - 9 (20 °C)

Solubility(ies)  
Water solubility : soluble

Partition coefficient: n-octanol/water : Not applicable

Vapour pressure : 23 hPa (20 °C)

Density : 1,8 g/cm<sup>3</sup> (20 °C)

### 9.2 Other information

Explosives : Not explosive

Flammability (liquids) : Will not burn

Self-ignition : not auto-flammable



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

#### 10.4 Conditions to avoid

Conditions to avoid : Strong sunlight for prolonged periods.

#### 10.5 Incompatible materials

Materials to avoid : Strong acids

#### 10.6 Hazardous decomposition products

No decomposition if used as directed.

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### SECTION 11: Toxicological information

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

##### Acute toxicity

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

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

##### Components:

##### **zinc oxide:**

Acute oral toxicity : Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

---

### **dicopper chloride trihydroxide:**

- Acute oral toxicity : LD50: 299 mg/kg
- Acute inhalation toxicity : Assessment: The component/mixture is moderately toxic after short term inhalation.
- Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **ethanediol:**

- Acute oral toxicity : Assessment: The component/mixture is moderately toxic after single ingestion.
- Acute inhalation toxicity : Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

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

- Acute oral toxicity : LD50 (Rat, male and female): 450 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : Acute toxicity estimate: 0,21 mg/l  
Test atmosphere: dust/mist  
Assessment: The component/mixture is highly toxic after short term inhalation.
- Acute dermal toxicity : Assessment: The substance or mixture has no acute dermal toxicity

### **Skin corrosion/irritation**

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

### **Components:**

#### **zinc oxide:**

- Assessment : No skin irritation

#### **dicopper chloride trihydroxide:**

- Assessment : No skin irritation

#### **ethanediol:**

- Assessment : No skin irritation

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

- Species : Rabbit

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

Exposure time : 4 h  
Assessment : Irritating to skin.

### Serious eye damage/eye irritation

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

#### Components:

##### **zinc oxide:**

Assessment : No eye irritation

##### **dicopper chloride trihydroxide:**

Assessment : No eye irritation

##### **ethanediol:**

Assessment : No eye irritation

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

Assessment : Risk of serious damage to eyes.

### Respiratory or skin sensitisation

#### **Skin sensitisation**

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

#### **Respiratory sensitisation**

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

#### Components:

##### **zinc oxide:**

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

##### **dicopper chloride trihydroxide:**

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

##### **ethanediol:**

Assessment : Does not cause skin sensitisation.

Assessment : Does not cause respiratory sensitisation.

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

Species : Guinea pig

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

Assessment : May cause sensitisation by skin contact.  
Method : OECD Test Guideline 406

Assessment : Does not cause respiratory sensitisation.

### Germ cell mutagenicity

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

#### Components:

##### **zinc oxide:**

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

##### **dicopper chloride trihydroxide:**

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

##### **ethanediol:**

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

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

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

Genotoxicity in vivo : Remarks: No data available

Germ cell mutagenicity- Assessment : Weight of evidence does not support classification as a germ cell mutagen.

### Carcinogenicity

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

#### Components:

##### **zinc oxide:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **dicopper chloride trihydroxide:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

##### **ethanediol:**

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

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

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

Carcinogenicity - Assessment : Not classifiable as a human carcinogen.

### **Reproductive toxicity**

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

#### **Components:**

##### **zinc oxide:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

##### **dicopper chloride trihydroxide:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

##### **ethanediol:**

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

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

Effects on fertility : Remarks: No data available

Reproductive toxicity - Assessment : No toxicity to reproduction

No effects on or via lactation

### **STOT - single exposure**

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

#### **Components:**

##### **zinc oxide:**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

---

### **dicopper chloride trihydroxide:**

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

### **ethanediol:**

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

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

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

### **STOT - repeated exposure**

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

### **Components:**

#### **zinc oxide:**

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

#### **dicopper chloride trihydroxide:**

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

#### **ethanediol:**

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

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

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

### **Repeated dose toxicity**

### **Components:**

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

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

### **Aspiration toxicity**

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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

---

### Components:

#### **zinc oxide:**

No aspiration toxicity classification

#### **dicopper chloride trihydroxide:**

No aspiration toxicity classification

#### **ethanediol:**

No aspiration toxicity classification

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

No aspiration toxicity classification

### 11.2 Information on other hazards

#### **Endocrine disrupting properties**

##### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **zinc oxide:**

#### **Ecotoxicology Assessment**

Acute aquatic toxicity : Very toxic to aquatic life.

Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

#### **dicopper chloride trihydroxide:**

M-Factor (Acute aquatic toxicity) : 10

M-Factor (Chronic aquatic toxicity) : 10

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

### Ecotoxicology Assessment

Acute aquatic toxicity : Very toxic to aquatic life.  
Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

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

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,15 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2,94 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,11 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

NOEC (Pseudokirchneriella subcapitata (green algae)): 0,055 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms : EC50 (activated sludge): 12,8 mg/l  
Exposure time: 3 h  
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic toxicity) : 1

### Ecotoxicology Assessment

#### 12.2 Persistence and degradability

##### Components:

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

Biodegradability : Test Type: aerobic  
Result: Not readily biodegradable.  
Biodegradation: 85 %  
Exposure time: 63 d  
Method: OECD Test Guideline 301C



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

---

### 12.3 Bioaccumulative potential

#### Components:

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

Partition coefficient: n-octanol/water : log Pow: 0,63 - 0,76 (20 °C)  
Method: Regulation (EC) No. 440/2008, Annex, A.8

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### Components:

##### **zinc oxide:**

Assessment : Substance is not persistent, bioaccumulative, and toxic (PBT).  
Substance is not very persistent and very bioaccumulative (vPvB).

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

Assessment : Remarks: No data available

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not flush into surface water or sanitary sewer system.  
In accordance with local and national regulations.

Contaminated packaging : Empty remaining contents.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

Empty containers retain residue and can be dangerous.  
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.  
(dicopper chloride trihydroxide, Zinc oxide)  
ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(dicopper chloride trihydroxide, Zinc oxide)  
RID : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(dicopper chloride trihydroxide, Zinc oxide)  
IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(dicopper chloride trihydroxide, Zinc oxide)  
IATA : Environmentally hazardous substance, liquid, n.o.s.  
(dicopper chloride trihydroxide, Zinc oxide)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version 1.2      Revision Date: 20.11.2024      SDS Number: M0058      Date of last issue: 25.09.2024  
Date of first issue: 13.09.2024

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Labels : 9

### 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

### IATA (Cargo)

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

### IATA\_P (Passenger)

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous Dangerous Goods

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

### IATA (Passenger)

Environmentally hazardous : yes

### IATA (Cargo)

Environmentally hazardous : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

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

Regulatory basis	:	IMSBC Code
Remarks	:	Product is not allowed to be transported in bulk.

## 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 Concern for Authorisation (Article 59) : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. E1 ENVIRONMENTAL HAZARDS

Water hazard class (Germany) : WGK 3 highly hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

#### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

### 15.2 Chemical safety assessment

Not relevant

## SECTION 16: Other information

### Full text of H-Statements

H301	:	Toxic if swallowed.
H302	:	Harmful if swallowed.
H315	:	Causes skin irritation.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

H330 : Fatal if inhaled.  
H332 : Harmful if inhaled.  
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 Dam. : Serious eye damage  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitisation  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
DE DFG MAK / MAK : MAK value  
DE TRGS 900 / AGW : Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the 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

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878



## Basfoliar® Triple Flo

Version	Revision Date:	SDS Number:	Date of last issue: 25.09.2024
1.2	20.11.2024	M0058	Date of first issue: 13.09.2024

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- Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Classification of the mixture:

Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Calculation method
Calculation method

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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