according to Regulation (EC) No. 1907/2006

# Basfoliar® Violeta SL 6-17-6



Version: 1.6 Revision Date:
Date of last issue: 23.12.2022 07.04.2023

Date of first issue: 27.06.2018

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

#### 1.1 Product identifier

Trade name : Basfoliar® Violeta SL 6-17-6

UFI : 74S2-U02K-100N-9MUC

## 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)

Skin corrosion/irritation, Category 1A H314: Causes severe skin burns and eye damage.

Reproductive toxicity, Sub-category 1B H360FD: May damage fertility. May damage the

unborn child.

Chronic aquatic toxicity, 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.

H360FD May damage fertility. May damage the

unborn child.

H412 Harmful 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.

P201 Obtain special instructions before use.

Response:

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off

immediately all contaminated clothing.

Rinse skin with water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with

water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

P308 + P313 IF exposed or concerned: Get medical

advice/ attention.

Storage:

P405 Store locked up.

#### 2.3 Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating and toxic (PBT). This mixture contains no substance considered to be very persistent and very bioaccumulating (vPvB).

# **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

# **Hazardous components**

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Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
copper sulphate	7758-98-7 231-847-6 01-2119520566-40- XXXX	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Acute Tox. 4; H302	>= 0,02 - <= 0,2
orthophosphoric acid	7664-38-2 231-633-2 01-2119485924-24- XXXX	Skin Corr. 1B; H314  specific concentration limit Skin Corr. 1B; H314 >= 25 % Skin Irrit. 2; H315 10 - < 25 % Eye Irrit. 2; H319 10 - < 25 %	>= 10 - <= 20
Zinc sulphate, monohydrate	7446-19-7 231-793-3 01-2119474684-27- XXXX	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 0,1 - <= 0,2
boric acid	10043-35-3 233-139-2	Repr. 1B; H360FD	>= 0,1 - <= 1,5

For explanation of abbreviations see section 16.

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4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where

possible).

If inhaled : If breathed in, move person into fresh air.

If breathing is irregular or stopped, administer artificial

respiration.

If unconscious place in recovery position and seek medical

advice.

In case of skin contact : Take off immediately all contaminated clothing.

Wash off immediately with soap and plenty of water.

Do NOT use solvents or thinners.

In case of eye contact : In case of eye contact, remove contact lens and rinse

immediately with plenty of water, also under the eyelids, for at

least 15 minutes.

Obtain medical attention.

If swallowed : If accidentally swallowed obtain immediate medical attention.

Keep at rest.

Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

**SECTION 5: Firefighting measures** 

5.1 Extinguishing media

Suitable extinguishing media : Product does not burn, fire-extinguishing activitys according to

surrounding.

Unsuitable extinguishing

media

: High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during

: Heating can release hazardous gases.

firefighting Fire may cause evolution of:

Carbon monoxide Nitrogen oxides (NOx) Carbon dioxide (CO2)

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5.3 Advice for firefighters

for firefighters

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

Further information : Prevent fire extinguishing water from contaminating surface

water or the ground water system.

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.

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

Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent

> material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local /

national regulations (see section 13).

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.

Wash hands before breaks and at the end of workday.

When using do not eat or drink. Wear personal protective equipment.

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

Further information on storage conditions

: Keep container tightly closed and in a well-ventilated place. Keep away from direct sunlight. Keep away from heat.

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

Keep away from oxidizing agents and strongly acid or alkaline

materials.

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Storage class (TRGS 510) : 8B, Non-combustible, corrosive hazardous materials

Recommended storage

temperature

: 5 - 35 °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	
copper sulphate	7758-98-7		1 mg/m3 (as Copper (Cu))	MAK (DE)	
orthophosphoric acid	7664-38-2	TWA	1 mg/m3	2000/39/EC	
Further information	Indicative				
		STEL	2 mg/m3	2000/39/EC	
Further information	Indicative				
		(Inhalable fraction)	2 mg/m3	DE TRGS 900	
Peak-limit: excursion factor (category)	2;(I)				
Further information	Commission for dangerous substances, Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission)., European Union (The EU has established a limit value: deviations in value and peak limit are possible), When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
		TLV-C (Inhalable fraction)	1 ml/m3 1 mg/m3	other	
		TLV-C (Inhalable fraction)	2 ml/m3 2 mg/m3	AGW	
boric acid	boric acid (Crude)		0,5 mg/m3	DE TRGS 900	
Peak-limit: excursion factor (category)	2;(I)				
Further information	Commission for dangerous substances, 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	0,5 mg/m3 (Borate)	DE TRGS 900	

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Peak-limit:	2;(I)
excursion factor	
(category)	
Further information	Commission for dangerous substances, 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
	unbom ciliu

Contains no substances with occupational exposure limit values.

#### 8.2 Exposure controls

# **Engineering measures**

Ensure thorough ventilation of stores and work areas.

### Personal protective equipment

Eye protection : Safety glasses with side-shields conforming to EN166

Hand protection

Material : PVC

Break through time : > 480 min

Glove length

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

Safety shoes

Respiratory protection : Respiratory protection not required.

### **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 : greenish

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Odour : odourless

Odour Threshold : No data available

pH : 1,8

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) : The product is not flammable.

Upper explosion limit : Not explosive

Lower explosion limit : Not explosive

Vapour pressure : No data available

Relative vapour density : No data available

Density : 1,26 g/cm<sup>3</sup>

Solubility(ies)

Water solubility : soluble

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

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9.2 Other information

Surface tension : No data available

**SECTION 10: Stability and reactivity** 

10.1 Reactivity

Exothermic reaction with bases.

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 : Reacts with alkalies.

10.4 Conditions to avoid

Conditions to avoid : Do not allow evaporation to dryness.

10.5 Incompatible materials

Materials to avoid : Bases

10.6 Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours.

**SECTION 11: Toxicological information** 

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

**Acute toxicity** 

Components:

copper sulphate:

Acute oral toxicity : LD50 Oral (Rat): 300 mg/kg

orthophosphoric acid:

Acute oral toxicity : LD50 (Rat): 2.600 mg/kg

Method: OECD Guideline 423

boric acid:

Acute oral toxicity : LD50 (Rat): 3.450 mg/kg

Acute inhalation toxicity : LC50 (Rat, male and female): > 2,12 mg/l

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): > 2.000 mg/kg

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#### Skin corrosion/irritation

#### **Product:**

Result: Skin irritation

# <u>Components:</u> copper sulphate: Assessment: Irritant

**boric acid:**Species: Rabbit

Result: No skin irritation

# Serious eye damage/eye irritation

#### **Product:**

Result: Eye irritation

# <u>Components:</u> <u>copper sulphate:</u> Assessment: Irritant

boric acid:

Method: OECD Test Guideline 405

Result: No eye irritation

## Respiratory or skin sensitisation

#### **Product:**

Result: non-sensitizing

# **Components:**

boric acid:

Test Type: Buehler Test Species: Guinea pig

Method: OECD Test Guideline 406

Result: negative

# germ cell mutagenicity

## **Components:**

boric acid:

Genotoxicity in vitro : Test Type: sister chromatid exchange assay

Species: Chinese hamster ovary cells

Metabolic activation: with and without metabolic activation

Result: negative

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: Test Type: Ames test

Species: Salmonella typhimurium Method: OECD Test Guideline 471

Result: negative

: Test Type: In vitro mammalian cell gene mutation test

Species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

# Carcinogenicity

# **Components:**

boric acid:

Remarks: This information is not available.

# Reproductive toxicity

#### Components:

boric acid:

Effects on fertility

Remarks: May damage fertility or the unborn child.

## STOT - single exposure

#### **Components:**

boric acid:

Remarks: No data available

# **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:**

according to Regulation (EC) No. 1907/2006

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Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other

aquatic invertebrates

: Remarks: No data available

Toxicity to algae : Remarks: No data available

Toxicity to bacteria

Remarks: No data available

**Components:** 

copper sulphate:

Toxicity to fish : LC50 (Salmo sp.): 0,1 - 2,5 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 0,024 mg/l

Exposure time: 48 h

Toxicity to algae : EC50 (Scenedesmus quadricauda (Green algae)): 0,1 mg/l

Exposure time: 4 h

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The product works in the soil as fertilizer and is

diminished in a few weeks.

12.3 Bioaccumulative potential

**Product:** 

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

4).

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

12.5 Results of PBT and vPvB assessment

**Product:** 

Assessment : This mixture contains no substance considered to be

persistent, bioaccumulating and toxic (PBT).. This mixture contains no substance considered to be very persistent and

very bioaccumulating (vPvB)..

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# 12.6 Endocrine disrupting properties

No data available

### 12.7 Other adverse effects

No data available

# **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

Product : Check if agriculture use is possible.

Disposal together with normal waste is not allowed. Special

disposal required according to local regulations.

Contaminated packaging : Rinse empty containers with water and use the rinse-water to

prepare the working solution.

Completely emptied packagings can be given for recycling.

## **SECTION 14: Transport information**

### 14.1 UN number or ID number

ADN : UN 1805
ADR : UN 1805
RID : UN 1805
IMDG : UN 1805
IATA : UN 1805

### 14.2 UN proper shipping name

ADN : PHOSPHORIC ACID SOLUTION
ADR : PHOSPHORIC ACID SOLUTION
RID : PHOSPHORIC ACID SOLUTION
IMDG : PHOSPHORIC ACID SOLUTION

IATA : Phosphoric acid, solution

# 14.3 Transport hazard class(es)

ADN : 8
ADR : 8
RID : 8
IMDG : 8
IATA : 8

### 14.4 Packing group

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### ADN

Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8

## **ADR**

Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

#### **RID**

Packing group : III
Classification Code : C1
Hazard Identification Number : 80
Labels : 8

#### **IMDG**

Packing group : III Labels : 8

EmS Code : F-A, S-B

Segregation group

#### **IATA**

Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

Packing instruction (LQ) : Y841
Packing group : III
Labels : 8

# 14.5 Environmental hazards

#### ADN

Environmentally hazardous : no

**ADR** 

Environmentally hazardous : no

**RID** 

Environmentally hazardous : no

**IMDG** 

Marine pollutant : no

# 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 : contains Concern for Authorisation (Article 59). Boric acid

(Germany)

Water contaminating class : WGK 2 water endangering

#### 15.2 Chemical Safety Assessment

Not relevant

#### **SECTION 16: Other information**

#### **Full text of H-Statements**

H302 : Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

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

H360FD May damage fertility. May damage the unborn child.

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

Eye Irrit. : Eye irritation

: Reproductive toxicity Repr. : Skin corrosion Skin Corr. : Skin irritation Skin Irrit.

(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

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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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