according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

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

1.1 Product identifier

Trade name : Basfoliar Shield SL

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, Category 1 H314: Causes severe skin burns and eye damage.

Specific target organ toxicity - single

H335: May cause respiratory irritation.

exposure, Category 3

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

Hazard pictograms





Signal word : Danger

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

H335 May cause respiratory irritation.

Precautionary statements : Prevention:

P260 Do not breathe mist or vapours.

P280 Wear protective gloves/ eye protection/ face

protection.

Response:

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

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

rinsing.

off immediately all contaminated clothing.

Rinse skin with water/ shower.

P310 Immediately call a POISON CENTER or

doctor/ physician.

Storage:

P405 Store locked up.

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.

extract of brown algae

Hazardous components

Chemical Name	CAS-No.	Classification	Concentration
	EC-No.		(% w/w)
	Registration number		

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

potassium hydroxide	1310-58-3 215-181-3 01-2119487136-33- XXXX	Acute Tox. 4; H302 Skin Corr. 1A; H314 Met. Corr. 1; H290 ————————————————————————————————————	>= 1 - <= 5
tripotassium orthophosphate	7778-53-2 231-907-1	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	>= 7 - <= 17
disodium metasilicate	6834-92-0 229-912-9	Skin Corr. 1B; H314 STOT SE 3; H335	>= 10 - <= 30

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 : Fresh air.

If symptoms persist, call a physician.

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

If symptoms persist, seek medical advice.

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

and consult a physician.

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

Do NOT induce vomiting.

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

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 : Water

Dry powder

5.2 Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: Cool closed containers exposed to fire with water spray.

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 : 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

: Wear personal protective equipment. Personal precautions

Keep people away from and upwind of spill/leak. In case of involuntary exposition of the product contact

producer or supplier.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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

none

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid contact with skin and eyes.

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. 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

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

Further information on

storage conditions

: Metal containers must be lined.

Advice on common storage : Keep away from strong acids.

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

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

The product does not contain any relevant quantities of materials with workingplace related values that require supervising.

8.2 Exposure controls

Personal protective equipment

Eye protection : Tightly fitting safety goggles (splash goggles) (EN 166)

Hand protection

Remarks : Chemical resistant protective gloves (EN 374). chloroprene

rubber (CR) - 0.5 mm coating thickness The selection of suitable depends upon the material, and also upon the quality of the gloves. The degree of protection will vary from

manufacturer to manufacturer. As the product is a

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

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 : Long sleeved clothing

Respiratory protection : Breathing apparatus needed only when aerosol or mist is

formed.

Protective measures : Handle in accordance with good industrial hygiene and safety

practice.

Do not breathe gas/fumes/vapour/spray.

Avoid contact with skin and eyes.

When using do not eat or drink.

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : product specific

Odour : characteristic

pH : > 12, (20 °C)

Boiling point/boiling range : ca. > 100 °C

Flash point : Not applicable

Evaporation rate : No data available

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

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

Upper explosion limit : Not applicable

Lower explosion limit : Not applicable

Vapour pressure : No data available

Relative vapour density : No data available

Density : ca. 1,233 g/cm³ (20 °C)

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

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

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Corrosive in contact with metals

With acid and aluminium.

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

10.4 Conditions to avoid

Conditions to avoid : No dangerous reaction known under conditions of normal use.

10.5 Incompatible materials

Materials to avoid : Metals

Alkaline earth metals

Acids

10.6 Hazardous decomposition products

Hydrogen, by reaction with metals

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:

potassium hydroxide:

Acute oral toxicity : LD50 (Rat): 365 mg/kg

tripotassium orthophosphate:

Acute oral toxicity : LD50 (Rat): 4.500 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 4.640 mg/kg

disodium metasilicate:

Acute oral toxicity : LD50 (Rat): 1.153 mg/kg

Skin corrosion/irritation

Product:

Remarks: Causes severe irritation of eyes, skin and mucous membranes.

Components:

potassium hydroxide:

Remarks: Causes skin burns.

tripotassium orthophosphate:

Species: Rat

Result: Skin irritation

disodium metasilicate:

Species: Rabbit

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

Exposure time: 24 h

Result: Severe skin irritation

Serious eye damage/eye irritation

Product:

Remarks: The product causes irritation of eyes, skin and mucous membranes.

Components:

potassium hydroxide:

Remarks: Causes eye burns.

tripotassium orthophosphate:

Species: Rabbit

Result: Severe eye irritation

disodium metasilicate:

Remarks: No data available

Respiratory or skin sensitisation

Product:

Remarks: None known.

germ cell mutagenicity

Product:

Genotoxicity in vitro : Remarks: In vitro tests did not show mutagenic effects

Information given is based on data obtained from similar

substances.

Carcinogenicity

Product:

Remarks: Contains no ingredient listed as a carcinogen

Reproductive toxicity

Product:

Effects on fertility

Remarks: No toxicity to reproduction

Effects on foetal : Remarks: Contains no ingredient listed as toxic to

development reproduction

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

STOT - single exposure

Product:

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

Components:

disodium metasilicate:

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Product:

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

Aspiration hazard

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

11.2 Information on other hazards

Endocrine disrupting properties

No data available

Further information

Product:

Remarks: Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information

12.1 Toxicity

Product:

Toxicity to fish : Remarks: No data available

Components:

potassium hydroxide:

Toxicity to fish : LC50 (Fish): 50 - 165 mg/l

Exposure time: 96 h

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): 30 - 1.000 mg/l

Exposure time: 48 h

tripotassium orthophosphate:

Toxicity to fish : LC50 (Gambusia affinis (Mosquito fish)): 750 mg/l

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

Exposure time: 96 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 data available

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

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

Product:

Additional ecological : See information supplied by the manufacturer.

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

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.

Check if agriculture use is possible.

Contaminated packaging : Dispose of as unused product.

Observe national and local legal requirements.

SECTION 14: Transport information

14.1 UN number or ID number

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

ADN : UN 1719
ADR : UN 1719
RID : UN 1719
IMDG : UN 1719
IATA : UN 1719

14.2 UN proper shipping name

ADN : CAUSTIC ALKALI LIQUID, N.O.S.

(potassium hydroxide, disodium metasilicate)

ADR : CAUSTIC ALKALI LIQUID, N.O.S.

(potassium hydroxide, disodium metasilicate)

RID : CAUSTIC ALKALI LIQUID, N.O.S.

(potassium hydroxide, disodium metasilicate)

IMDG : CAUSTIC ALKALI LIQUID, N.O.S.

(potassium hydroxide, disodium metasilicate)

IATA : Caustic alkali liquid, n.o.s.

(potassium hydroxide, disodium metasilicate)

14.3 Transport hazard class(es)

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

14.4 Packing group

ADN

Packing group : III
Classification Code : C5
Hazard Identification Number : 80
Labels : 8

ADR

Packing group : III
Classification Code : C5
Hazard Identification Number : 80
Labels : 8
Tunnel restriction code : (E)

RID

Packing group : III Classification Code : C5

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

Hazard Identification Number : 80 Labels : 8

IMDG

Packing group : 111 Labels : 8

: F-A, S-B EmS Code Segregation group : 18: Alkalis

IATA

Packing instruction (cargo : 856

aircraft)

Packing instruction : 852

(passenger aircraft)

Packing instruction (LQ) : Y841 Packing group : 111 Labels : 8

14.5 Environmental hazards

Environmentally hazardous : no

ADR

Environmentally hazardous : no

Environmentally hazardous : no

IMDG

Marine pollutant : no

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not relevant

SECTION 15: Regulatory information

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

(Germany)

Water contaminating class : WGK 1 slightly water endangering

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

SECTION 16: Other information

Full text of H-Statements

H290 : May be corrosive to metals. H302 : Harmful if swallowed.

H314 : Causes severe skin burns and eye damage.

H315 : Causes skin irritation.

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

Full text of other abbreviations

Acute Tox. : Acute toxicity

Eye Irrit. : Eye irritation

Met. Corr. : Corrosive to metals

Skin Corr. : Skin corrosion

Skin Irrit. : Skin irritation

STOT SE : Specific target organ toxicity - single exposure

(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

according to Regulation (EC) No. 1907/2006

Basfoliar Shield SL



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

Date of first issue: 23.08.2018

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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