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

1.1 Product identifier

Trade name : Basfoliar Boron SP

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

Use of the Sub-
stance/Mixture : Fertilizer

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)

Reproductive toxicity, Category 1B H360FD: May damage fertility. May damage the unborn child.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms : 

Signal word : Danger

Hazard statements : H360FD May damage fertility. May damage the unborn child.

Precautionary statements : **Prevention:**

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P201 Obtain special instructions before use.
P280 Wear protective gloves/ protective clothing/
eye protection/ face protection.

Response:
P308 + P313 IF exposed or concerned: Get medical ad-
vice/ attention.

2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).
This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Follow the directions.
May impair fertility.
May cause harm to the unborn child.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification	Concentration (% w/w)
disodium octaborate tetrahydrate	12280-03-4 234-541-0 01-2119490860-33- XXXX	Repr. 1B; H360Fd	<= 100

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : Move out of dangerous area.
If conscious, give the victim plenty of water to drink.

If inhaled : If breathed in, move person into fresh air.
If symptoms persist, call a physician.

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

In case of eye contact : In case of contact with the eyes, rinse immediately for at least
15 minutes with plenty of water.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water and drink afterwards plenty of water.
If symptoms persist, call a physician.
Do NOT induce vomiting.

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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 activities according to surrounding.
water spray
Foam
Carbon dioxide (CO₂)
Dry powder

Unsuitable extinguishing media : none

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting : No information available.

5.3 Advice for firefighters

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

Further information : The product itself does not burn.
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 : Safety glasses
Ensure adequate ventilation.
Avoid breathing dust.

6.2 Environmental precautions

Environmental precautions : Do not let product enter drains, surface water or subsoil water.
Disposal according to regulations.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Take up mechanically and send for disposal.

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Disposal according to regulations.

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 dust formation.
Do not breathe dust.
Smoking, eating and drinking should be prohibited in the application area.
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
- Advice on protection against fire and explosion : Product is not explosive. The product is not capable of a dust explosion. product is non-flammable.
- Hygiene measures : Avoid contact with skin, eyes and clothing. No eating, drinking, smoking or snuff-taking at the place of work. 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 containers tightly closed in a cool, well-ventilated place.
- Advice on common storage : Keep away from food, drink and animal feedingstuffs.
- Storage class (TRGS 510) : 6.1D, Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects

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

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

Substance name	End Use	Exposure routes	Potential health effects	Value
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Remarks:	No data available			

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

Substance name	Environmental Compartment	Value
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Remarks:	No data available

8.2 Exposure controls

Engineering measures

Ensure thorough ventilation of stores and work areas.

Personal protective equipment

- Eye protection : In case of longterm uses or insufficient ventilation:
Tightly fitting safety goggles
- Hand protection
Remarks : Hand protection not required. Skin should be washed after
contact.
- Skin and body protection : Wearing of closed work clothing is recommended.
- Respiratory protection : Not necessary if room is well-ventilated.
Suitable respiratory protection for higher concentrations or
long-term effect:
Respirator with a dust filter
- Protective measures : No special protective equipment required.
Avoid inhalation of vapour or mist.
Avoid contact with skin, eyes and clothing.

Environmental exposure controls

- General advice : Do not let product enter drains, surface water or subsoil water.
Disposal according to regulations.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Physical state : powder to fine granules
- Colour : white
- Odour : odourless
- pH : 8,5, Concentration: 10 g/l (20 °C)
7,6, Concentration: 100 g/l (20 °C)
- Melting point/range : 813 °C
- Boiling point/boiling range : No data available
- Flash point : No data available

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Evaporation rate	: Not applicable
Flammability (solid, gas)	: The product is not flammable., Does not sustain combustion.
Upper explosion limit	: Not applicable
Lower explosion limit	: Not applicable
Vapour pressure	: Not applicable
Bulk density	: No data available
Solubility(ies)	
Water solubility	: 223 g/l (20 °C)
	421 g/l (60 °C)
Solubility in other solvents	: soluble Solvent: glycols
	soluble Solvent: alcohols
Partition coefficient: n-octanol/water	: log Pow: -0,757 (25 °C)
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No decomposition if stored and applied as directed.
Viscosity	
Viscosity, dynamic	: Not applicable
Explosive properties	: Product is not explosive.
Oxidizing properties	: Not considered an oxidizing substance

9.2 Other information

Molecular weight : 412,52 g/mol

SECTION 10: Stability and reactivity

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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 : No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if stored and applied as directed.
No dangerous reaction known under conditions of normal use.

10.5 Incompatible materials

Materials to avoid : Gives off hydrogen by reaction with metals.
Acetic anhydride
Reducing agents
Acid anhydrides

10.6 Hazardous decomposition products

No hazardous decomposition products if stored and handled as prescribed/indicated.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat): >> 2.000 mg/kg

Acute inhalation toxicity : LC50 (Rat): 2 mg/l

Skin corrosion/irritation

Product:

Result: No skin irritation

Serious eye damage/eye irritation

Product:

Result: Mild eye irritation

Respiratory or skin sensitisation

Product:

Result: non-sensitizing

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Germ cell mutagenicity

Product:

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

Carcinogenicity

Product:

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

Reproductive toxicity

Product:

Effects on fertility :
Remarks: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the foetus including foetal weight loss and minor skeletal variations. The doses administered were many times in excess of those which humans would normally be exposed to.

Effects on foetal development : Remarks: Animal feeding studies in rat, mouse and dog, at high doses, have demonstrated effects on fertility and testes. Studies in rat, mouse and rabbit, at high doses, demonstrate developmental effects on the foetus including foetal weight loss and minor skeletal variations. The doses administered were many times in excess of those which humans would normally be exposed to.

Reproductive toxicity - Assessment : May damage fertility. May damage the unborn child., In animal testing, risk of impaired fertility was shown only after administration of very high doses of this substance. May damage fertility. May damage the unborn child.

STOT - single exposure

Product:

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

STOT - repeated exposure

Product:

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

SECTION 12: Ecological information

12.1 Toxicity

Product:

- Toxicity to fish : LC50 (Limanda sp.): 74 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna): 141 mg/l
Exposure time: 48 h
- Toxicity to algae : EC10 (Scenedesmus subspicatus): 24 mg/l
Exposure time: 96 h

12.2 Persistence and degradability

Product:

- Biodegradability : Remarks: Expected to be biodegradable

12.3 Bioaccumulative potential

Product:

- Bioaccumulation : Remarks: Does not bioaccumulate.

12.4 Mobility in soil

Product:

- Distribution among environmental compartments : Remarks: Mobile in soils

12.5 Results of PBT and vPvB assessment

Product:

- Assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB)..

12.6 Other adverse effects

Product:

- Additional ecological information : No reports of ill effects provided the product was correctly handled and processed.

SECTION 13: Disposal considerations

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13.1 Waste treatment methods

- Product : Must not be disposed together with household garbage. Do not allow product to reach sewage system. Observe all local regulations. Do not flush into surface water or sanitary sewer system.
- Contaminated packaging : Disposal must be made according to official regulations.

SECTION 14: Transport information

14.1 UN number

Not regulated as a dangerous good

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : Not relevant

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) : This product contains substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57). disodium octaborate tetrahydrate

Water contaminating class (Germany) : WGK 1 slightly water endangering

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H360Fd : May damage fertility. Suspected of damaging the unborn

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child.

Full text of other abbreviations

Repr. : Reproductive toxicity

(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 Standardization; 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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