

Safety Data Sheet

PermaBloom



Version: 6

Version date: 25/07/2024

Language: EN

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identifier

Trade name/designation : PermaBloom.
Article No (user) : EN05xxx.
UFI : 33ST-711Y-U00Q-CDXG

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

Relevant identified uses : Optimum plant nutrition.
Uses advised against : Toute utilisation non spécifiée dans cette section ou dans la section 7.3.

1.3. Details of the supplier of the safety data sheet

Supplier : **Name:** Terra Aquatica SAS
Street: 4 blvd du Biopole
Postal code/City: 32500 Fleurance
P.O. Box: 32500
Country: France :
Telephone: 0.562060830
Website: www.terraaquatica.com
E-mail: Info@terraaquatica.com

1.4. Emergency Telephone Number

United Kingdom:

+35625454030 +35 (0) 31 837 9964 (medical professionals) +35 (0) 31 809 2166 (public) In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220 South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195.

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Hazards identification: This mixture is not classified as dangerous.

2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Labelling

Hazard pictograms

Signal word

Precautionary Statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

2.3. Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European CHemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH:

Boric acid, CAS: 10043-35-3, EC: 233-139-2.

Substance		Concentration (%)	Specific concentration limits	Classification
Boric acid				
CAS N°	10043-35-3	C= 0.01%		H360 Repr. 1B
EC N°	233-139-2			
IDX N°	005-007-00-2			
Registration number	01-2119486683-25-XXXX			

Remark

Text phrases and H- EUH-: see section 16.

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Keep affected person warm, still and covered.

Remove the affected person from the danger zone and lay down.

Following inhalation:

Under normal conditions of use, inhalation is unlikely.

Remove person to fresh air and keep comfortable for breathing.

Following skin contact:

Wash with soap and water.

Remove contaminated, saturated clothing immediately.

In case of skin reactions, consult a physician.

Following eye contact:

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

Following ingestion:

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

Self-protection of the first aider:

First aider: Pay attention to self-protection!.

4.2. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media:

Foam.

Extinguishing powder.

Carbon dioxide (CO2).

Sand.

Unsuitable extinguishing media:

Strong water jet.

5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Do not inhale vapors and fumes.

Co-ordinate fire-fighting measures to the fire surroundings.

Move undamaged containers from immediate hazard area if it can be done safely.

Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.

Use water spray jet to protect personnel and to cool endangered containers.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment.

Remove persons to safety.

Provide adequate ventilation.

Use appropriate respiratory protection.

6.2. Environmental precautions

Ensure that waste is collected and contained.

Contain leaks or spills within cabinets with removable trays.

6.3. Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.

Collect in closed and suitable containers for disposal.

Clean contaminated objects and areas thoroughly observing environmental regulations.

Ventilate affected area.

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Wipe up with absorbent material (eg. cloth, fleece).

6.4. Reference to other sections

Safe handling: see section 7.

Disposal: see section 13.

Personal protection equipment: see section 8.

Additional information

Not available

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

PROTECTIVE MEASURES:

Avoid contact with skin, eyes and clothes.

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Provide earthing of containers, equipment, pumps and ventilation facilities.

Provide adequate ventilation as well as local exhaustion at critical locations.

Vapours/aerosols should be exhausted directly at the point of origin.

Advices on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing immediately.

Work in well ventilated zones or use proper respiratory protection.

7.2. Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry, cool, and well-ventilated place.

Keep only in original container.

Close containers before and after use.

Keep upright to prevent leakage.

Store between 5 and 30°C.

Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

Advice on joint storage:

Keep away from food, drink and animal feedingstuffs.

Keep away from clothing and other combustible materials.

Keep only in the original container in a cool, well-ventilated place, away from highly flammable substances.

7.3. Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Occupational exposure limits:

Substance	Value	Unit	Type
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No data available

Biological limit values:

Not available

Exposure limits at intended use:

Not available

Remark:

Not available

8.2. Exposure controls

Appropriate engineering controls:

Technical measures and the application of suitable work processes have priority over personal protection equipment.

Provide adequate ventilation as well as local exhaust at critical locations.

Individual protection measures, such as personal protective equipment:



Eye/face protection

: Recommended to avoid the risk of splashing.

Suitable eye protection:

No data available.

Skin protection

: **Hand protection:**

Recommended to avoid the risk of stains.

Suitable gloves type:

Wear protective gloves.

Additional hand protection measures:

Do not wear gloves near machines and rotating tools.

Use gloves only once.

Remark:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

Body protection:

Suitable protective clothing:

Lab coat.

Respiratory protection

: **Respiratory protection necessary at:**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus:

Wear respiratory protection.

Remark:

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used.

Observe the wear time limits as specified by the manufacturer.

Use only respiratory protection equipment with CE-symbol including four digit test number.

Environmental exposure controls:

Not available

Consumer exposure controls:

Not available

Additional information

Not available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Pink
Odour	: No Odour
pH	: 4
Melting point/freezing point	: Not available
Initial boiling point and boiling range	: Not available
Flash point	: Not available
Flammability	: Not Flammable
Upper/lower flammability or explosive limits	: Not available
Vapour pressure	: Not available
Vapour density	: Not available
Relative density	: 1.14

Solubility(ies)	:	Fully Soluble
Partition coefficient n-octanol/water (log value)	:	Not applicable
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
Dynamic viscosity	:	Not applicable
Kinematic viscosity	:	Not available
Oxidising properties	:	Not available
Solubility in other Solvents	:	Not available
Particle characteristics	:	Not applicable

9.2. Other safety information

Information concerning to the classes of physical hazards

Not available

Other security characteristics

Not available

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No particular risk of reaction with other materials under normal conditions of use.

10.2. Chemical stability

The product is stable when stored at normal ambient temperatures.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

PermaBloom contains elements which are powerful oxidizers and can react with strong bases to release ammonium. It can also react with strong reducing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

Additional information

Not available

SECTION 11: TOXICOLOGICAL INFORMATION

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

Acute oral toxicity:

The product is not classified.

Substances:

Not available

Acute dermal toxicity:

The product is not classified.

Substances:

Not available

Acute inhalation toxicity:

The product is not classified.

Substances:

Not available

Skin corrosion/irritation:

The product is not classified.

Substances:

Not available

Serious eye damage/irritation:

The product is not classified.

Substances:

Not available

Skin sensitisation:

The product is not classified.

Substances:

Not available

Specific target organ toxicity (repeated exposure):

The product is not classified.

Substances:

Not available

Specific target organ toxicity (single exposure):

The product is not classified.

Substances:

Not available

Carcinogenicity:

The product is not classified.

Substances:

Not available

Reproductive toxicity:

The product is not classified.

Substances:

Not available

Germ cell mutagenicity:

The product is not classified.

Substances:

Not available

Sensitisation to the respiratory tract:

The product is not classified.

Substances:

Not available

Additional information:

Not available

11.2. Information on other hazards**Endocrine disrupting properties:**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

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

Substances:

Not available

12.2. Persistence and degradability

Easily biodegradable by plants and soil.

The product has not been tested.

Substances:

Not available

12.3. Bioaccumulative potential

The product does not bioaccumulate. The product is not expected to have any effect on the environment if used correctly.

The product has not been tested.

Substances:

Not available

12.4. Mobility in soil

This product can be carried by groundwater seepage or surface runoff, as it is completely soluble.

The product has not been tested.

Substances:

Not available

12.5. Results of PBT and vPvB assessment

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

12.6. Endocrine disrupting properties

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

12.7. Other adverse effects

Not available

Additional ecotoxicological information

Not available

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods**Product/Packaging disposal:****Waste codes/waste designations according to EWC/AVV:**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Waste treatment options:**Appropriate disposal/Product:**

Dispose of waste according to applicable legislation.
Delivery to an approved waste disposal company.

Appropriate disposal/Package:

Non-contaminated packages must be recycled or disposed of.
Contaminated packing must be completely emptied and can be reused after proper cleaning.
Packing which cannot be properly cleaned must be disposed of.
Handle contaminated packages in the same way as the substance itself.
Dispose of waste according to applicable legislation.

Remark:

Consult the appropriate authorities about waste disposal.
Do not mix with other wastes.

Additional information

Not available

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

The product is not hazardous according to the applicable transport regulations.

14.2. UN proper shipping name

Not regulated.

14.3. Transport hazard class(es)

Not regulated.

14.4. Packing group

Not available

14.5. Environmental hazards

Not regulated.

14.6. Special precautions for user

Not available

14.7. Bulk shipping according to IMO instruments

Not available

Additional information

Not available

SECTION 15: REGULATORY INFORMATION

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

This SDS has been established in accordance with the technical guide on the application of CLP criteria (Jan 2024 - version 6.0) - paragraphs 2.13.4.1.1.

EU legislation:

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]:

"Category 1, 2 or 3 oxidizing liquids. The total quantity likely to be present in the installation being: 1. greater than or equal to 50

t.....A 2. Greater than or equal to 2 t but less than 50

t.....D Low threshold quantity as defined in article R. 511-10: 50 t High threshold quantity as defined in article R. 511-10: 200 t".

EU legislation:

CLP: Harmonised classification and labelling of hazardous substances (Annex VI, table 3.1)_ATP 17:

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

REACH: Annex XVII (Restrictions):

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

REACH: Candidate List of SVHC:

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

National regulations:

Cosmetic Ingredient Hotlist:

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

Occupational Exposure Limit Values (long term) - Canada (Ontario):

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

Occupational Exposure Limit Values (long term) - Ireland:

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

Occupational Exposure Limit Values (short term) - Canada (Ontario):

Substance	CAS	EC
Boric acid	10043-35-3	233-139-2

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

Additional information

Not available

SECTION 16: OTHER INFORMATION**Indication of changes**

Update in accordance with the technical guide on the application of CLP criteria (Jan 2024 - version 6.0) - paragraphs 2.13.4.1.1.; section 2.01, 2.02; 15.01; 16.04.

Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

Key literature references and sources for data

No data available.

Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

Complies with ATP 18, Regulation (EU) n°2022/692.

According to the Guidance on the Application of the CLP Criteria Version 6.0 - Jan 2024 2.13.4.1.1. Screening procedures and waiving of testing.

Relevant R-, H- and EUH-phrases (Number and full text)

H360 Repr. 1B

May damage fertility or the unborn child.

Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

Additional information

This information describes the safety aspects of the product. It is not intended to guarantee specific properties.

The recipient must ensure that he/she is not liable for anything other than the texts mentioned. Users are responsible for complying with all applicable regulations.

The information contained herein is based on our knowledge of the product at the date indicated. It is given in good faith. The user's attention is drawn to the possible risks involved when a product is used for purposes other than those for which it was created.

Creation date: 01/01/2010

Version date: 25/07/2024

Printing date: 26/07/2024

The information given in this Safety Data Sheet is based on our present knowledge and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.