

Safety Data Sheet

according 1907/2006/EC (REACH), 2015/830/EU

PermaBloom

Date: 01 January 2010 Version No. 4 Review date: 03/01/2022

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

Product identifier

1.1 Product name: PERMABLOOM

Relevant identified uses

of the substance or mixture and uses

mixture and uses advised against

1.2

Relevant identified uses of the substance or mixture:

PermaBloom is a mixture of mineral salts formulated and mixed in proportions that ensure

optimal plant nutrition (Plant fertilizer).

Uses advised against:

Any use not specified in this section or in section 7.3

Use Descriptor System (REACH): No data available (not applicable).

1.3 Details of the supplier of the safety data sheet

Supplier identification

Terra Aquatica

Address

4, boulevard du Biopole 32500 FLEURANCE

Phone number

+33 (0)5 62 06 08 30

E-mail address

info@eurohydro.com

1.4 Emergency telephone number

Medical services/

999

emergency services

999

Fire and rescue services

101

Police
1.4
EU Emergency call line

112

Toxicological

+33 01 45 41 59 59

Information Centre ORFILA (INRS)

Toxicological Information Centre

South West

+333 05 61 77 74 47

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture 2.1

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous.

Additional information:

Hazards for humans None **Environmental hazards** None Physico-chemical None

hazards Other hazards

None

Labelling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

None

Hazard pictograms 2.2

> Signal word None Hazardous substances None to be indicated on the

label

Hazard statements H: None

Precautionary

Phrases P statements P:

P102 Keep out of reach of children

2.3 Other hazards

Reg. 1272/2008/CLP

None

For the assessment of PBTs and vPvBs, see section 12.5.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances Non applicable

Mixtures 3.2 Name

PERMABLOOM PermaBloom is a mixture of mineral salts formulated in proportions that ensure optimal plant

nutrition. The exact nature of the salts as well as their proportions are a manufacturing secret. However, they are derived from: Potassium nitrate, magnesium sulphate, ammonium nitrate,

potassium phosphate.

Chemical name Concentration (%) N°CAS

Ammonium nitrate 0-0.5 6484-52-2 Potassium nitrate 5-6 7757-79-1

SECTION 4: FIRST AID MEASURES

No known incidents of damage to persons who have used this product.

However, in case of doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person. The general measures described below should be adopted:

4.1 Description of first aid measures

Following eye contact Wash immediately with plenty of water, keeping the eyelids well apart, and consult a specialist.

Following skin contact Rinse the irritated area thoroughly with water with soap. Remove contaminated clothing.

Following ingestion Do not induce vomiting, seek medical attention immediately by showing the product label. Following inhalation If inhaled, move to fresh air. Keep the victim warm and rested. In case of breathing difficulties,

consult a doctor as soon as possible.

Self-protection of the

first aider

Depending on the first aid context, wear appropriate protective equipment including a mask or filtered respirator and, if necessary, operate in the presence of another co-worker. Always wear

protective gloves and a resuscitation mask in case of artificial respiration. Wash hands

thoroughly after giving first aid. If your clothing becomes contaminated with a chemical during

first aid procedures, change it.

Other information

For further details of first aid administration, including but not limited to more serious health effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4

Most important 4.2 symptoms and effects, both acute and delayed

Potential acute health effects:

No known effect / no data are available.

Signs/symptoms of overexposure:

No specific data.

Indication of any immediate medical attention and special treatment needed

Note to the attending physician

Symptomatic treatment required. No special treatment.

In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5 **SECTION 5: FIREFIGHTING MEASURES**

Extinguishing media

The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.

Suitable extinguishing media:

In the event of continued combustion, caused by improper handling, storage or use, the following extinguishing media may be used: carbon dioxide (CO2), foam, chemical powders, and in the event of a widespread fire, also water spray.

Inappropriate extinguishing media:

In case of fire, do not use: Water jet

Special hazards arising from the substance or

Hazards due to the substance or mixture:

Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.

Risk related to thermal decomposition products:

A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of the products.

Advice for firefighters

Protective actions to be taken when fighting fires

Quickly isolate the site by evacuating all persons from the area near the incident in case of fire. Do not take any action involving a personal risk or in the absence of adequate training. Keep containers away from fire if it can be done without risk. Use water or water spray to keep containers exposed to fire cool.

Appropriate protective equipment

The product is not combustible. In the event of a fire in the surrounding area, appropriate extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic

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5.1

4.3

mixture

5.2

5.3

level of protection against chemical incidents. Have a minimum of emergency facilities or

intervention elements (fire blankets, medicine kit, etc.) in accordance with Directive 89/654/EC.

Other information Additional provisions:

Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and

Other Emergency Response. Remove all sources of ignition. In case of fire, refrigerate

containers and storage tanks for products that may ignite and explode. Avoid spilling products

used to extinguish the fire in the aquatic environment.

SECTION 6: ACCIDENTAL RELEASE MESURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure good ventilation.

In the event of accidental dispersion of a large quantity, evacuate all personnel and allow access only to trained operators with appropriate personal protective equipment. (See section

8)

Workers will be equipped with appropriate personal protective equipment.

For emergency responders

(See section 8)

Environmental precautions





Avoid contamination of soil, sewers, surface water and groundwater. If this happens, inform the

competent authorities.

Methods and material for containment and cleaning up

6.3

6.4

7.1

6.2

5.4

For containment: Sewer coverage

Collect the spilled product by mechanical means and remove any residues by water jets.

 $\label{lem:provide} Provide\ adequate\ ventilation\ at\ the\ location\ of\ the\ spill.\ The\ disposal\ of\ the\ contaminated$

material must be carried out in accordance with the provisions of point 13.

Reference to other sections

For cleaning up:

Collect the remains in an identified container: see point 13 for disposal.

Personal protective equipment: see section 8 Withdrawal considerations: see section 13.

See section 1 for emergency contact information.

7 SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid the formation of suspended particles and the dispersion of the product in the air.

Use adequate ventilation in areas where suspended particles develop.

Keep away from flames and sparks. Do not smoke. Keep away from heat sources and other $\,$

sources of fire.

Do not eat, drink or smoke in work areas.

Wash hands after each use.

Conditions for safe storage, including any incompatibilities

Ensure adequate local ventilation or exhaust.

Store container upright, tightly closed in a cool, dry, well-ventilated place.

7.2 Close containers before and after each use to avoid sources of moisture or heat. Store in

labelled bottles.

Store in waterproof areas if possible.

Specific end use(s)

No specific end uses.

Good practices: keep in closed containers. Close containers before and after each use to avoid

sources of moisture or heat. Store in areas with impermeable pavement.

SECTION 8: EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

Control parameters

Not applicable

Follow good industrial hygiene practices.

8.2 Exposure controls

7.3

8

8.1

Appropriate engineering controls

No particular control. Good general ventilation should be sufficient to control workers'

exposure to airborne contaminants.

Individual protection measures, such as personal protective equipment

No personal protection required. In general, use individual protections placed on the market in

accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of

the Council of 9 March 2016.

Personal protective equipment must be adapted to the risk, kept clean and properly maintained

in accordance with the provisions of the Labour Code.

Eye/face protection

It is recommended to wear protective glasses in accordance with NF EN166 before handling

any chemical products.

Skin protection

Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the

product.

Use suitable chemical-resistant protective gloves in accordance with NF EN374.

Respiratory protection

Ensure adequate ventilation, especially in enclosed areas.

Body protection

Wear appropriate protective clothing.

After contact with the product, all parts of the body that have been in contact with the product

must be washed.

Environmental exposure

controls

No data available.

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance Physical state: All PermaBloom compounds are in aqueous solution (liquid)

Color: Pink

Odour No odor

pH 4

Melting point

Freezing point

Initial boiling point and boiling range
Flash point

Not applicable

Not determined

Not determined

Not determined

Evaporation rate Not dete

Not determined

Flammability (solid,

gas)

Upper/lower flammability or explosive limits

Non inflammable

Not applicable

Vapour pressure

Vapour density

Relative density

Solubility(ies) 20°C

Not determined

1.14

Entirely Soluble

Partition coefficient: n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity

Not determined

Not determined

Not determined

Explosive properties
Oxidising properties
Not determined
Not determined
Not determined

Refraction index Not determined
Rotary power Not determined

9.2 Other information

No other information

10.5

SECTION 10 : STABILITY AND REACTIVITY

Reactivity
10.1 No specific reactivity test data are available for this product or its components in normal

conditions of use.

Chemical stability
10.2 The product is stable at room temperature in closed packages and under normal storage and

handling conditions.

Possibility of hazardous 10.3 reactions

No risk of dangerous reactions under normal use and storage conditions.

Conditions to avoid

No special conditions to avoid. Comply with usual precautionary practices regarding

chemicals.

Incompatible materials

PermaBloom contains elements that are powerful oxidants that can react with strong bases to

release ammonium. It can also react with powerful reducers.

Hazardous
10.6 decomposition decomposition decomposition decomposition products should not be

produced.

At high temperatures, decomposition products are formed: phosphorus oxide, magnesium

oxide, potassium oxide(s) and sulphur oxide(s).

11 SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) acute toxicity; Most of the chemicals in PermaBloom are toxic by ingestion, inhalation or skin contact (mild

(b) skin irritation if exposed to 72 hours of dermal exposure without precaution). corrosion/irritation;

(c) serious eye

damage/irritation; (d) respiratory or skin sensitisation; (e) germ cell mutagenicity; (f) carcinogenicity; (g) reproductive toxicity; (h) STOT-single exposure;

(i) STOT-repeated exposure;

(j) aspiration hazard

Information on likely exposure pathways

Ingestion: No known significant effects or critical hazards.

Inhalation: No known significant effects or critical hazards.

Skin exposure: Slight irritation. No known significant effects or critical hazards. Eye exposure: Slight irritation. No known significant effects or critical hazards.

Symptoms related to

the physical, chemical and toxicological characteristics

Non known symptoms

Delayed and

immediate effects as well as chronic effects from shortand long-term exposure

No known health effect

Interactive effects

Absence of specific data

No data available No data available

Mixtures

No data available

Mixture versus substance information

Mixture not containing substances subject to registration.

No known adverse effects or symptoms resulting from exposure to the mixture or its

components.

Not applicable

Other information

Comply with good industrial hygiene practices

SECTION 12: ECOLOGICAL INFORMATION

12.1 **Toxicity**

12.2 Persistence and degradability

No data available to date to the best of our knowledge

12.3 Bioaccumulative potential

No data available to date to the best of our knowledge

Mobility in soil

12.4

13.1

No data available to date to the best of our knowledge. Waste generation should be avoided or

minimized as much as possible, and the product should not be discharged into sewers or

12.5 Results of PBT and vPvB assessment

No data available to date to the best of our knowledge

12.6 Other adverse effects No known significant effects or critical hazards.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

PermaBloom can be disposed of in the same way as any industrial fertilizer. Recover the

product as much as possible. Follow local legislation.

Do not discharge into my sewers or waterways.

Waste: Waste management is carried out without endangering human health and without harming the environment, including without creating a risk to water, air, soil, fauna and flora.

Recycle or dispose of in accordance with current legislation, preferably by an approved

collector or company.

Disposal of the product/packaging: it is prohibited to discharge it into sewers or waterways. Residues and empty containers must be handled and disposed of in accordance with the

relevant local/national legislation in force.

Follow the provisions of Directive 2008/98/EC on waste management.

Waste codes / waste designations

according to LoW:

Not applicable

14 **SECTION 14: TRANSPORT INFORMATION**

Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6

UN number Not regulated. Non-hazardous transport

UN proper shipping 14.2

name

Not regulated. Non-hazardous transport

Transport hazard 14.3

class(es)

Not regulated. Non-hazardous transport

ADR IMDG

Not regulated. Non-hazardous transport

OACI/IATA

Packing group

Not regulated. Non-hazardous transport

Environmental hazards

Not regulated. Non-hazardous transport

Special precautions for

user

Not regulated. Non-hazardous transport

14.6

14.4

14.5

14.1

Transport in bulk 14.7

according to Annex II of MARPOL73/78 and the **IBC Code**

Not regulated. Non-hazardous transport

15 **SECTION 15: REGULATORY INFORMATION**

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

15.1

Reg. 1272/2008/CE

The product does not contain substances that can be classified as carcinogenic. 1 or $2\,$

according to Reg.1272/2008/EC and subsequent updates.

Reg. 830/2015/CE

(REACH)

Not applicable

Special hazards

None

15.2 **Chemical safety**

assessment

Evaluation not carried out

SECTION 16: OTHER INFORMATION 16

Abbreviations and acronyms:

ETA = Acute Toxicity Estimation

CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and

mixtures

DNEL = Derived no-effect dose DMEL = Derived no-effect dose

EUH = Specific hazard statement CLP CPSE = Predicted no-effect concentration

RRN = REACH registration number

PTB = Persistent, Toxic and Bioaccumulative tPtB = Very persistent and very bioaccumulative 16.1

16.2

bw = Body mass

Key literature references and sources for data

Regulation (EC) 1907/2006 of the European Parliament (REACH) Regulation (EC) 1272/2008 of the European Parliament (CLP)

Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)

Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the

European Parliament (II Atp. CLP)

The Merck index. Ed. 10 Handling and chemical safety

Niosh - Register of toxic effects of chemical substances

INRS - Toxicological Data Sheet

Patty - Industrial hygiene and toxicology

N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989

ECHA website

EU REACH IUCLID5 CSR.

National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.

IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Règlement (CE) n° 1272/2008

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Annexe VI.

16.3 Indication of changes:

Date of revision: 03/01/2022

Previous version date: 25/02/2020

Version:4

Modification: Section 1.3, Company name

16.4 Classification and procedure used to derive the classification for mixtures according to Regulation (EC)

1272/2008 [CLP]:

The indicated mixture does not require an SDS according to the REACH requirements. This sheet is for information purposes only.

This safety data sheet complies with the requirements set out in Reg. 830/2015/EU. It does not exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are simply intended to help the recipient to assume his responsibilities. This list should not be considered exhaustive. This data sheet supplements the technical instructions for use but does not replace them. The information in this safety data sheet has been compiled by Terra Aquatica on the basis of its current knowledge (safety data sheet for the active ingredients compiled by the manufacturer and other bibliographical data) as of the date indicated. It is given in good faith. In addition, 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. The recipient must ensure that he is not liable for anything other than what is stated in the texts other than those mentioned.

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

It is the responsibility of our customers to observe the applicable regulations.