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

Pro Bloom

Date : 30/09/2013 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 A. Product name: **PRO BLOOM**

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

Relevant identified uses of the substance or mixture:

Pro Bloom is a growth and flowering activator for plants in compliance with the European regulation on organic agriculture No. 834/2007.

Uses advised against:

Any use not specified in this section or in section 7.3

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

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@terraaquatica.com

1.4 Emergency telephone number

Medical services/ emergency services	**999**
Fire and rescue services	**999**
Police	**101**
EU Emergency call line	**112**
Toxicological Information Centre ORFILA (INRS)	**+33 01 45 41 59 59**
Toxicological Information Centre South West	**+33 05 61 77 74 47**

2 SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

	Reg. 1272/2008/CLP	In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous (IK).
	Additional information :	
	Hazards for humans	None
	Enviromental hazards	None
	Physico-chemical hazards	None
	Other hazards	None
	Labelling elements	
	Labelling according to Regulation (EC) No 1272/2008 [CLP]	
2.2	Hazard pictograms	None
	Signal word	None
	Hazardous substances to be indicated on the label	None
	Hazard statements H:	None
	Precautionary statements P:	Phrases P P102 Keep out of reach of children
2.3	**Other hazards**	
	Reg. 1272/2008/CLP	None

3 SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1	**Substances**	Non applicable
3.2	**Mixtures** **Name**	Pro Bloom Pro Bloom is a 100% organic growth and flowering activator for plants based on plant/ algae extracts authorised by the EC standard on organic farming No. 834/2007.

4 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.

4.1 Description of first aid measures

Following eye contact	Rinse eyes with clear water for about 15 minutes.
Following skin contact	Rinse thoroughly with water.
Following ingestion	Do not give anything by mouth to an unconscious or convulsing person. Drink water to dilute the product (0.5L to 1L). If you take more than one teaspoon, mild diarrhoea may be caused by the action of enzymes in the stomach.
Following inhalation	Under normal conditions of use, inhalation is unlikely. In case of exposure move person to fresh air and if necessary and assist breathing. Seek medical attention if breathing difficulties appear/persist.
Self-protection of the first aider	Depending on the first aid context, wear appropriate protective equipment including a mask or filtered respirator. Always wear protective gloves and a resuscitation mask in case of artificial respiration. Wash hands thoroughly after giving first aid. If 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
4.2	**Most important symptoms and effects, both acute and delayed**	Bloom Booster can cause mild diarrhoea due to the enzymatic process with intestinal bacteria, if ingested in large quantities or in concentrated form.
4.3	**Indication of any immediate medical attention and special treatment needed**	Note to the attending physician No known data

5 SECTION 5 : FIREFIGHTING MEASURES

5.1	**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 for a surrounding fire: 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
5.2	**Special hazards arising from the substance or mixture**	Due to its flammability characteristics, the product does not present a fire hazard under normal conditions of storage, handling and use. A fire in the surrounding space will often produce thick black smoke. Exposure to compositional products may result in health hazards. Do not breathe fumes.
5.3	**Advice for firefighters**	<u>Protective actions to be taken when fighting fires</u> Quickly isolate the area by evacuating all persons from the area near the incident in the event of a fire. Do not take any action involving personal risk or in the absence of adequate training. Keep containers away from fire if it can be done without risk. Use water or spray to keep containers exposed to fire cool. <u>Appropriate protective equipment</u> 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 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.
5.4	**Other information**	Special firefighting procedures: Keep cans away from the fire if it can be done safely. Fire can cause smoke or toxic gases. Firefighters must wear a mask with a closed-circuit breathing system and protective clothing and avoid contact with eyes or skin. Approach the fire with a braced wind. If large quantities of product are involved, do not use a hose with fittings. Be careful of water flows resulting from firefighting. Do not discharge fire-extinguishing material into drains or sewers.

6 SECTION 6 : ACCIDENTAL RELEASE MESURES

6.1 **Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel	Ensure good ventilation. Wear protective gloves and goggles to avoid stains or risk of splashing.
For emergency responders	Workers will be equipped with personal protective equipment appropriate to the possible hazards. (See section 8)

6.2 **Environmental precautions**

The product is biodegradable. However, avoid contamination of sewers, surface water and groundwater. If this happens, inform the competent authorities.

6.3 **Methods and material for containment and cleaning up**

For containment:	Sewer coverage
For cleaning up:	Collect the spilled product by mechanical means and remove any residues by water jets. 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.
Other information:	Do not put the spilled product in contact with combustible or incompatible materials. Cleaning personnel must wear equipment to protect skin and eyes. Small amounts of product can be moped with inert, non-combustible materials such as sand or soil. These materials must then be placed in appropriate containers.

6.4 **Reference to other sections**

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

7.1 **Precautions for safe handling**

Avoid formation of suspended particles and dispersion of the product in the air.
Provide adequate ventilation in areas where suspended particles develop.
Keep away from flames and sparks. Do not smoke. Keep away from heat and other sources of fire.
Do not eat, drink or smoke in work areas.
Wash hands after each use.

7.2 **Conditions for safe storage, including any incompatibilities**

Ensure adequate local ventilation or exhaust.
Store in a cool, dry place. Keep container tightly closed in a dry, well-ventilated place.
Ideally the storage temperature should be between 5ºC and 30ºC.
Temperatures above 90ºC may cause thermal decomposition resulting in totally benign by-products, organic matter, carbonated water, etc., which may be present in the product.
Close containers before and after each use to avoid sources of moisture or heat.
Keep containers upright to prevent leakage.

7.3 **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 waterproof pavement.
The ingredients may lose their effectiveness if the product is stored in a too hot place, also avoid temperatures below -5°C.

8 SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

8.1	**Control parameters**	Not applicable Use good industrial hygiene practices.
8.2	**Exposure controls**	
	Appropriate engineering controls	No particular control
	Individual protection measures, such as personal protective equipment	Use individual protection 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 compliance with the provisions of the labour code.
	Eye/face protection	It is necessary to wear protective glasses complying with standard NF EN166 before any handling of products in order to avoid risks of projection.
	Skin protection	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product to avoid stains. Use suitable protective gloves resistant to chemical agents in accordance with NF EN374.
	Respiratory protection	Ensure adequate ventilation, especially in enclosed areas. Respiratory protection device not required.
	Body protection	Wear appropriate protective clothing. After contact with the product, all soiled body parts should be washed.
	Environmental exposure controls	No data available. Biodegradable product

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Physical state: all Pro Bloom compounds are in aqueous solution. Color: Dark Brown
Odour	Orange
pH	9-9.5
Melting point	Not applicable
Freezing point	-4°C
Initial boiling point and boiling range	103°C
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Non inflammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	Not determined
Solubility(ies) 20°C	Soluble, 995 g/L
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined

	Viscosity	60m Pa-s (Brookfield)
	Explosive properties	Not determined
	Oxidising properties	Not determined
	Refraction index	Not determined
	Rotary power	Not determined
9.2	**Other information** No other information	

10 SECTION 10 : STABILITY AND REACTIVITY

10.1	**Reactivity**	Stable. No particular risk of reaction with other materials under normal conditions of use.
10.2	**Chemical stability**	Pro Bloom is stable at room temperature in closed packages and under normal storage and handling conditions.
10.3	**Possibility of hazardous reactions**	No hazardous polymerization can be produced by any of these components No risk of dangerous reactions under normal use and storage conditions.
10.4	**Conditions to avoid**	No special conditions to avoid.
10.5	**Incompatible materials**	No specific data.
10.6	**Hazardous decomposition products**	No specific data.

11 SECTION 11 : TOXICOLOGICAL INFORMATION

11.1	**Information on toxicological effects**	
	a) acute toxicity; (b) skin 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	No known toxicological effects
	Symptoms related to the physical, chemical and toxicological characteristics	Ingestion: May potentially cause mild diarrhea if ingested in large amounts or in concentrated form. Inhalation: unlikely route of exposure under normal conditions of use. Skin Exposure: no danger - wash with water. Eye Exposure: Mild irritation possible - wash with water.
	Delayed and immediate effects as well as chronic effects from short- and long-term exposure	No known effect
	Interactive effects	No data available
	Absence of specific data	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.
	Other information	Comply with good industrial hygiene practices

12 SECTION 12 : ECOLOGICAL INFORMATION

12.1	**Toxicity**	No known risks.
12.2	**Persistence and degradability**	Biodegradable.
12.3	**Bioaccumulative potential**	No risks known. Biodegradable.
12.4	**Mobility in soil**	No risks known. Biodegradable.
12.5	**Results of PBT and vPvB assessment**	No data available
12.6	**Other adverse effects**	No data available

13 SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Do not flush to sewers or waterways. Waste: Waste management shall be carried out without endangering human health and without harming the environment, and in particular without creating a risk to water, air, soil, fauna and flora. Recycle or dispose of in accordance with current legislation, preferably by a licensed collector or company. Disposal of the product/packaging: Disposal into sewers or waterways is prohibited. 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

14.1	**UN number**	Non-hazardous transport
14.2	**UN proper shipping name**	Non-hazardous transport
14.3	**Transport hazard class(es)**	Non-hazardous transport
	ADR	Non-hazardous transport
	IMDG	Non-hazardous transport
	OACI/IATA	Non-hazardous transport
14.4	**Packing group**	Non-hazardous transport
14.5	**Environmental hazards**	Non-hazardous transport
14.6	**Special precautions for user**	Non-hazardous transport

14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Non applicable/ Non-hazardous transport

15 SECTION 15 :REGULATORY INFORMATION

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

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

16 SECTION 16 : OTHER INFORMATION

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
bw = Body mass

16.1 **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)

16.2

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 Annexe VI.

16.3 **Indication of changes:**

Date of revision: 03/01/2022
Previous version date: 02/10/2019
Version :4

Modification: Section 1.3, Company name

16.4 Note

The indicated mixture does not require an SDS according to the REACH requirements. SDS 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 contained herein is based on our knowledge of the product as of the date indicated. It is given in good faith.
Furthermore, the user's attention is drawn to the possible risks incurred 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.
This safety data sheet has been compiled by Terra Aquatica on the basis of its current knowledge (safety data sheet of the active ingredients compiled by the manufacturer and other bibliographical data).
The information describes the safety aspects of the product. It is not intended to guarantee specific properties.
It is the responsibility of the users to observe the applicable regulations.