

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

Protect

Date : 01/06/2019

Version No. 3

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

Product identifier

1.1 A. Product name: **PROTECT**

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

Relevant identified uses of the substance or mixture:

Activator of the plant's immune defences, for use in hydroponic cultivation or in soil.

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 Sarl (GHE)
Address	Route de Lecture, 32500 Fleurance
Phone number	+33 (0)5 62 06 08 30
E-mail address	info@eurohydro.com

1.4 Emergency telephone number

Medical services/ emergency services	15
Fire and rescue services	18
Police	17
EU Emergency call line	112
Toxicological Information Centre ORFILA (INRS)	01 45 41 59 59
Toxicological Information Centre South West	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.

Additional information :

Hazards for humans	None
Environmental 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

2.3 Other hazards

Reg. 1272/2008/CLP	None
Precautionary statements P:	Phrases P P102 Keep out of reach of children

3 SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Substances	Non applicable
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3.2	Mixtures Name	Protect Macerated plant extracts not containing substances classified as hazardous to health or the environment in accordance with the instructions of Directives 67/548/EEC and/or Regulation (EC) 1272/2008 (CLP) (and subsequent amendments and adaptations).
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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. The general measures described below should be adopted:

4.1

Description of first aid measures

Following eye contact	Do not allow the victim to rub their eyes or keep their eyes closed. Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes. Check if the victim is wearing contact lenses and if so, remove them. Consult a doctor if irritation persists.
Following skin contact	Rinse the irritated area thoroughly with water. Remove contaminated clothing.
Following ingestion	Do not induce vomiting. Rinse the mouth with water. If a person has swallowed this product and is conscious, give small amounts of water to drink. Call a doctor if adverse health effects persist or worsen. Possibility of mild diarrhea due to the activity of enzymatic bacteria in the stomach.

Following inhalation	If inhaled, move to fresh air. In case of breathing difficulties, consult a doctor as soon as possible.
Self-protection of the first aider	No action should be taken that involves an individual risk or in the absence of appropriate training. If it is suspected that fumes are present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It can be dangerous for the person assisting a victim to practice mouth-to-mouth. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
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	<p>Potential acute health effects: No known effect / no data are available.</p> <p>Signs/symptoms of overexposure: No specific data.</p>
4.3 Indication of any immediate medical attention and special treatment needed	<p>Note to the attending physician</p> <p>Symptomatic treatment required. No special treatment.</p>

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.
5.1	<p>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.</p> <p>Inappropriate extinguishing media: In case of fire, do not use: Water jet</p>
Special hazards arising from the substance or mixture	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.
5.2	<p>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.</p>
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.
5.3	<p><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</p>

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.

Other information

Additional provisions:

5.4

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 as a result of high temperatures. Avoid spilling products used to extinguish the fire in the aquatic environment.

6 SECTION 6 : ACCIDENTAL RELEASE MESURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

None. Inert product that does not present any risk to humans or the environment.

For emergency responders

None. Inert product that does not present any risk to humans or the environment.

Environmental precautions

None. Inert product that does not present any risk to humans or the environment.

6.2

Methods and material for containment and cleaning up

6.3

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.

Reference to other sections

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

6.4

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.

7.1

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.

Advice on professional hygiene in general:

It is prohibited to eat, drink or smoke in areas where this product is handled, stored or used. It is recommended that staff wash their hands and face before eating, drinking or smoking. Remove contaminated clothing and protective equipment before entering a food court. See also section 8 for more information on hygiene measures.

Conditions for safe storage, including any incompatibilities

7.2

Store in accordance with local regulations. Store in the original container away from direct sunlight in a dry, cool and well-ventilated place away from incompatible materials (see section 10). Store away from light and ideally at a temperature between +5° and +25°. Keep container tightly closed when not in use. Containers that have been opened must be carefully closed again and kept in an upright position to prevent leaks. Do not store in unlabelled containers. Do not store in the presence of food products. Use an appropriate container to avoid contamination of the surrounding environment.

Specific end use(s)

7.3

No specific end uses.

Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat.

8 SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

8.1 Control parameters

Not applicable

Respect good industrial hygiene practices.

8.2 Exposure controls

Appropriate engineering controls

No particular control

Individual protection measures, such as personal protective equipment

When necessary 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

Wear safety glasses if there is a risk of splashing

Skin protection

Hands : Not required

Others : Not required

Respiratory protection

Not necessary, except in case of particular sensitivity: use of a mask

Body protection

Not required

Environmental exposure controls

Not required

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Color: dark brown

Odour

Lemon

pH

9-9.5

Melting point

Not determined

Freezing point

Not determined

Initial boiling point and boiling range

Not determined

Flash point

Not applicable

Evaporation rate	Not applicable
Flammability (solid, gas)	Non inflammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.04
Solubility(ies) 20°C	Soluble, 960g/l
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	60m Pa-s (Brookfield)
Explosive properties	None
Oxidising properties	None
Refraction index	Not determined
Rotary power	Not determined

9.2 Other information
No other information

10 SECTION 10 : STABILITY AND REACTIVITY

10.1	Reactivity	No specific reactivity test data are available for this product or its components in normal conditions of use. Do not leave the product outdoors, close the container tightly after use.
10.2	Chemical stability	The product is stable at room temperature in closed packages and under normal storage and handling conditions. Avoid temperature variations in the storage area (ideally keep between 5° and 25°). A temperature above 90°C can cause thermal decomposition of the product. Benign decomposition products (organic matter, carbon water).
10.3	Possibility of hazardous reactions	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	Under normal storage and use conditions, no hazardous decomposition products should occur.

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;	In view of the available data, the classification criteria are not met, biodegradable and neutral product.
	(e) germ cell mutagenicity; (f) carcinogenicity; (g) reproductive toxicity; (h) STOT-single exposure; (i) STOT-repeated exposure;	No known health damage resulting from exposure to the product.

(j) aspiration hazard

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: possibility of slight diarrhea

Inhalation: no known effects

Skin exposure: no known effects

Eye exposure: no known effects

Delayed and immediate effects as well as chronic effects from short- and long-term exposure

Health effects are considered unlikely if the product is used as recommended

Interactive effects

No data available

Absence of specific data

No data available

Mixtures

No data available

Mixture versus substance information

Not applicable

Other information

Comply with good industrial hygiene practices

12 SECTION 12 : ECOLOGICAL INFORMATION

- 12.1 Toxicity** No known significant effects or critical hazards., , biodegradable and neutral product.
- 12.2 Persistence and degradability** Easily biodegradable by plants and soil. The product does not show any bioaccumulation phenomena.
- 12.3 Bioaccumulative potential** It cannot be expected to bioaccumulate in the environment through food chains.
- 12.4 Mobility in soil** Not available.
- 12.5 Results of PBT and vPvB assessment** Does not contain components classified as PBT and vPvB.
- 12.6 Other adverse effects** No known significant effects or critical hazards.

13 SECTION 13 : DISPOSAL CONSIDERATIONS

- Waste treatment methods** Non-hazardous residues, do not require any special treatment method.
No physical/chemical properties affecting waste treatment.
Where they cannot be reused, contaminated residues or packaging waste as such must be considered as non-hazardous special waste. They must be disposed of in authorized landfills. In accordance with current legislation, do not discharge waste water into the environment.
- 13.1** 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	
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	
	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	To our knowledge, no other national or governmental regulations apply.
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

16.3	Indication of changes:	Version 2 : 25/09/2019 Updated to European 16 points standard
16.4	Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]: Note	<p>Non Applicable</p> <p>The indicated mixture does not require an MSDS according to REACH requirements. Form prepared for information purposes.</p> <p>Product that can be used in organic farming in accordance with EEC regulation N°834/2007</p> <p>This safety data sheet complies with the requirements established by Regulation 830/2015/EU. It does not in any way 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 intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical operating instructions but does not replace them. The information contained herein is based on our knowledge of the product on the date indicated. They are 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.</p> <p>The addressee must ensure that he is not responsible for anything else according to texts other than those mentioned.</p> <p>This safety data sheet has been prepared by Terra Aquatica on the basis of its current knowledge (manufacturer's active ingredient safety data sheet and other bibliographic data).</p> <p>The information describes the safety aspects of the product. They are not intended to guarantee specific properties.</p> <p>It is the responsibility of our customers to comply with the regulations in force.</p>