

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

Pro Roots

Date: 30/09/2013

Version No. 4

Review date: 03/01/2022

1	SECTION 1: IDENTIFICAT	TION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING
	Product identifier	
1.1	A. Product name:	PRO ROOTS
1.2	Relevant identified uses of the substance or mixture and uses advised against	Relevant identified uses of the substance or mixture:
		Pro Roots is an organic roots activator and growth stimulator that complies with the
		EC regulation on organic farming No. 834/2007.
		Uses advised against:
		Any use not specified in this section or in section 7.3
1.3	Dataila af the annulian of the a	Use Descriptor System (REACH): No data available (not applicable).
1.3	Details of the supplier of the s	arety data sneet
	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/ emergency services	999
	Fire and rescue services	999
1.4	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

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	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 Regulat	ion (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
2.3	Other hazards	P102 Keep out of reach of children
2.5	Reg. 1272/2008/CLP	None
	SECTION 3 : COMPOSITI	ION/INFORMATION ON INGREDIENTS
3.1	Substances	Non applicable
3.2	Mixtures Name	Pro Roots
		Pro Roots is a 100% organic root activator and growth stimulator based on
		Ascophyllum nodosum Algae.

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	Rinse eyes with clear water for about 15 minutes.
Following skin contact	Rinse thoroughly with water. Remove contaminated clothing.
	If the skin is red or puffy, if irritation persists, consult a doctor.
Following ingestion	Drink water to dilute the product (from $0.5L$ 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, 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 clothing.

	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	4.2 Most important symptoms and effects, both acute and	Pro Roots can cause mild diarrhoea due to the enzymatic process with intestinal
	delayed	bacteria, if ingested in large quantities or in concentrated form.
	Indication of any immediate medical attention and special treatment needed	No known data
4	4.3	

4.3

SECTION 5 : FIREFIGHTING MEASURES 5

	Fration and a later of one office	
	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,
5.1		the following extinguishing media may be used: carbon dioxide (CO2), foam, chemical
5.1		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 mixture	Given its flammability characteristics, the product does not present a specific risk of
		fire or explosion under normal storage, handling and use conditions.
		A fire in the surrounding area will often produce thick black smoke. Exposure to
5.2		compositional products may pose health risks. Do not breathe dust, vapours or fumes
		released by the combustion of products.
	Advice for firefighters	Protective actions to be taken when fighting fires
		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		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 level of protection against chemical incidents.
		Have a minimum of emergency facilities or intervention elements (fire blankets,
Oti 5.4		medicine kit, etc.) in accordance with Directive 89/654/EC.
	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.

6.1	Personal precautions, protection	ve equipment and emergency procedures	
	For non-emergency personnel	Ensure proper ventilation. Wear gloves and safety glasses 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	No particular precaution	
	Methods and material for containment and cleaning up		
6.3	For containment:	Sewer coverage	
6.4	For cleaning up: Reference to other sections	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. 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. 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 Conditions for safe storage, including any incompatibilities	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. Store in accordance with local regulations. Store in the original container, tightly closed, away from direct sunlight in a dry, cool and well-ventilated place away	
7.2		from incompatible materials (see section 10). Ideally, the storage temperature should be between 5°C and 40°C. A temperature above 90°C can lead to thermal decomposition creating totally benign by-products, organic matter, carbonated water. Close containers before and after each use to avoid sources of moisture or heat. Keep containers upright to avoid risk of leaks. Keep in labelled containers, away from food products.	

No specific end uses.

7.3

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 Individual protection measures, such as personal	No particular control
		Use individual protections placed on the market in accordance with the provisions of
	protective equipment	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 necessary to wear safety glasses that comply with the NF EN166 standard before	
Skin protection		handling any products to avoid risks of splashing.
	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with	
		the product to avoid stains.
	Respiratory protection	Use suitable chemical-resistant protective gloves in accordance with NF EN374.
		Ensure adequate ventilation, especially in enclosed areas. Respiratory protection
		device not required.
	Body protection	Wear appropriate protective clothing if deemed necessary.
		After contact with the product, all soiled parts of the body must 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 Roots compounds are in aqueous solution.
	Color: Dark Brown
Odour	Lemon
рН	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	1.12
Solubility(ies) 20°C	Soluble, 995g/L

Partition coefficient: n- octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	60 m Pa-S (Brookfield)
Explosive properties	Not determined
Oxidising properties	Not determined
Refraction index	Not determined
Rotary power	Not determined

9.2 Other information ation

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 Roots 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	Under normal storage and use conditions, no hazardous decomposition products should occur.

SECTION 11 : TOXICOLOGICAL INFORMATION 11

Information on toxicological effects

(b) skir (c) seri damag (d) resj sensitis (e) geri (f) carc	 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; 	No known toxicological effects
	 (h) STOT-single exposure; (i) STOT-repeated exposure; (j) aspiration hazard 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.
eff eff Ion	Delayed and immediate effects as well as chronic effects from short- and long-term exposure Interactive effects	No known effect
		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
Ot	Other information	components.
		Comply with good industrial hygiene practices

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12.1	Toxicity	Not applicable
12.2	Persistence and degradability	Biodegradable.
12.3	Bioaccumulative potential	Not determined. Biodegradable.
12.4	Mobility in soil	No data available. Biodegradable.
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 data available to date to the best of our knowledge

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13	SECTION 13 : DISPOSAL CONSIDERATIONS	
	Waste treatment methods	
	Waste d'édiment médious	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.
13.1		Disposal of the product/packaging: 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.
		Recover the product as much as possible. Follow local legislation.

Waste codes / waste designations according to LoW:

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
	Special precautions for user	Non-hazardous transport
14.6		
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Non applicable/ Non-hazardous transport
15	SECTION 15 :REGULATO	RY INFORMATION
	Safety, health and environmen	tal 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 contract to day and a
15.2	Chemical safety assessment	To our knowledge, none.
16	-	Evaluation not carried out
16	SECTION 16 : OTHER INF	ORMATION
	Abbreviations and	ETA = Acute Toxicity Estimation
	acronyms:	CLP = Regulation 1272/2008/EC on classification, labelling and packaging of
		substances and mixtures
		DNEL = Derived no-effect dose
		DNEL = Derived no-effect dose DMEL = Derived no-effect dose
		DMEL = Derived no-effect dose
		DMEL = Derived no-effect dose EUH = Specific hazard statement CLP
		DMEL = Derived no-effect dose EUH = Specific hazard statement CLP CPSE = Predicted no-effect concentration
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16.1		DMEL = Derived no-effect dose EUH = Specific hazard statement CLP CPSE = Predicted no-effect concentration RRN = REACH registration number PTB = Persistent, Toxic and Bioaccumulative
16.1	Key literature	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	Key literature references and sources for data	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	references and sources	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 Regulation (EC) 1907/2006 of the European Parliament (REACH)
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		Substances.
		IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Règlement (CE) n $^\circ$
	Indication of changes: Note	1272/2008 Annexe VI.
16.3		Date of revision: 03/01/2022
		Previous version date: 02/10/2019
		Version :4
		Modification: Section 1.3, Company name
		Product that can be used in organic farming in accordance with EEC regulation
		N°834/2007
		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. The addressee
		must ensure that he is not responsible for anything else according to texts other than
		those mentioned.
		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).
		The information describes the safety aspects of the product. They are not intended to
		guarantee specific properties.

It is the responsibility of our customers to comply with the regulations in force.