

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

DualPart Grow Hard Water

Date : 01 Janvier 2008

Version No. 4

Review date: 03/01/2022

1	SECTION 1: IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/ UNDERTAKING		
1.1	Product identifier		
	Product name:	DUALPART GROW HARD WATER	
1.2	Relevant identified uses of the substance or mixture and uses advised against	<u>Relevant Identified Uses :</u> DualPart Grow Hard Water is a blend of mineral salts formulated and blended in proportions that ensure optimal nutrition for plants. <u>Uses not recommended:</u> Any use not specified in this section or in section 7.3.	
		<u>Use Descriptor System (REACH):</u> No data available (not applicable).	
1.3	Details of the supplier of	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 nu	umber	
	Medical services/ emergency services	999	
	Fire and rescue services	999	
	Police	101	
1.4	EU Emergency call line	112	
	Toxicological Information Centre ORFILA (INRS) Toxicological	+33 01 45 41 59 59 +33 05 61 77 74 47	
	Information Centre South West		
2	SECTION 2 : HAZAR	DS 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	H319 - Causes serious eye irritation
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 Hazardous substances to be indicated on the label	None None
2.3	Hazard statements Warning statement P-phrases (Reg. 1272/2008/CLP) Additional hazard information (EU) Other hazards	None P102 Keep out of reach of children None
	Reg. 1272/2008/CLP	None

3	SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS		
3.1	Substances	Non applicable	
3.2	Mixtures Trade Name	DualPart Grow Hard Water	
	Ingredient name	Non applicable	
	Mixtures classified as	Non applicable	
	dangerous		
	Description	DualPart Grow Hard water	is a mixture of mineral salts, formulated and blended in proportions
		that ensure optimal nutriti	on for plants. The exact nature of the salts as well as their proportions
		are a manufacturing secret. However, they are derived from: Potassium Nitrate, Magnesium	
		Chloride, Ammonium Nitrate, Potassium Carbonates	
	Chemical name	Concentration (%)	CAS Number
	Ammonium nitrate	2-5	6484-52-2
	Potassiun nitrate	10-20	7757-79-1
	Calcium nitrate	2-5	10124-37-5
Λ	SECTION 4 · FIRST 4		

4 SECTION 4 : FIRST AID MEASURES

In general, if in 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	Check for and remove any contact lenses. Wash immediately with plenty of water, keeping the
	eyelids well apart, and consult a specialist.
Following skin contact	Wash with plenty of soapy water. Remove impregnated clothing.
Following ingestion	Do not induce vomiting. Rinse mouth with water and drink small amounts of water if conscious.
	Seek medical attention and show the product label if symptoms develop.
Following inhalation	Move the victim to fresh air. Keep her warm and at rest. In case of breathing difficulty contact a
	doctor.
Self-protection of the first aider	Depending on the first aid setting, 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 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
Most important symptoms and effects, both acute and delayed	No known effects
Indication of any immediate medical	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The
attention and special treatment needed	exposed person may need to be kept under medical surveillance for 48 hours.

5 SECTION 5 : FIREFIGHTING MEASURES

4.2

4.3

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:
		Use an extinguishing agent suitable for the surrounding fire or 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	Due to its flammability characteristics, the product does not contain a fire hazard under normal
	mixture	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.
		Decomposition products may include the following materials:
		oxides of nitrogen
		sulphur oxides
		phosphorus oxides
		metal oxide / metal oxides
		Fire water contaminated with this product should be contained and prevented from being
		discharged to a watercourse or sewer.
5.3	Advice for firefighters	Protective actions to be taken when fighting fires
		Rapidly 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 Page $3 \ { m sur} \ 10$
		-

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 level of protection against chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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 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 as a result of high temperatures. Avoid spilling products used to extinguish the fire in the aquatic environment.

6 SECTION 6 : ACCIDENTAL RELEASE MESURES

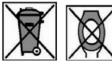
6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel No action should be taken that involves an individual risk or in the absence of appropriate training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

For emergency responders will be equipped with appropriate personal protective equipment. (See section 8)

6.2 Environmental precautions

6.4



Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

For containment:	Sewer coverage
For cleaning up:	Gather up the spilled product by mechanical means and remove the remains by water jets.
	Provide sufficient ventilation of the spillage area. Contaminated material must be disposed of in
	accordance with point 13.
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.

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 container upright, tightly closed in a cool, dry, well-ventilated place.
		Close containers before and after each use to avoid sources of moisture or heat. Store in
		labelled bottles.
7.3	Specific end use(s)	Store in waterproof paved areas if possible.
		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.

SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

8

8.1	Control parameters	Not applicable
		Use good industrial hygiene practices.
8.2	Exposure controls	
	Appropriate engineering controls	No special controls. Good general ventilation should be enough to control worker exposure to
		airborne contaminants.
	Individual protection measures, such as	Use individual protection placed on the market in accordance with the provisions of Regulation
	personal protective equipment	(EU) 2016/425 of the European Parliament and of the Council of 9 March 2016.
	equipment	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 in accordance with the NF EN166 standard before
	Skin protection	handling chemicals.
		Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the
		product.
		Use appropriate 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
	Environmental exposure controls	must be washed.
		Emissions from ventilation or work process equipment should be checked to ensure they comply
		with the requirements of environmental protection legislation.
g	SECTION 9 · PHYSIC	CAL AND CHEMICAL PROPERTIES

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Physical state: All DualPart Grow Hard water compounds are in liquid solution.
	Colour: yellowish-greenish
Odour	None
рН	3.74
Melting point	Not available
Freezing point	Not available

Initial boiling point and boiling range Flash point	Not available Not available
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Upper/lower flammability or explosive limits	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	1.12
Solubility(ies) 20°C	Entirely Soluble
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidising properties	Not available
Refraction index	Not available
Rotary power	Not available

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.	
10.2	Chemical stability	DualPart Grow Hard Water is stable at room temperature in closed packages and under normal	
		storage and handling conditions.	
		No hazardous polymerization can be produced by any of these components under normal	
		storage and handling conditions.	
10.3	Possibility of hazardous reactions	Pas de risque de réactions dangereuses dans des conditions normales d'utilisation et	
		d'entreposage.	
10.4	Conditions to avoid	No special conditions to avoid. Comply with usual precautionary practices regarding chemicals.	
10.5	Incompatible materials	DualPart Grow Hard Water contains elements that are powerful oxidizers that can react with	
		strong bases to release ammonium. It can also react with powerful reducing agents.	
10.6	Hazardous decomposition	At very high temperatures, decomposition products are formed: phosphorus oxide, magnesium	
	products	oxide, potassium oxide(s), carbon monoxide and sulphur oxide(s).	
11			

11 SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) acute toxicity

Ingredient name	Result	Species	Dose
Ammonium	LD50 Oral	Rat	2217 mg/kg
nitrate	LD50 Oral	Rat	2.000 - 5.000 mg/kg

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Exposure Not applicable Not applicable

Potassium nitrate	LD50	Rat	> 5,000 mg/kg	Not applicable
	Cutaneous	Rat	500 mg/kg 423 Acute oral toxicity - Acute toxicity	Not applicable
Calcium nitrate	LD50 Oral	Rat	class method	Not applicable
	L50D		200mg/kg	
	Cutaneous			

CC	(b) skin prrosion/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 Symptoms related to the physical, chemical and toxicological characteristics	There is no data available. Ingestion: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards. Skin Exposure: Mild irritation. No known significant effects or critical hazards. Eye Exposure: Mild irritation. No known significant effects or critical hazards.
	Delayed and immediate effects as well as chronic effects from short- and long-term exposure Interactive effects	No known significant effects or critical hazards.
		No known significant effects or critical hazards.
	Absence of specific data	No known significant effects or critical hazards.
	Mixtures	No known significant effects or critical hazards.
	Mixture versus substance	Mixture not containing substances subject to registration.
	information	No known adverse effects or symptoms resulting from exposure to the mixture or its constituent
		substances.
	Other information	No known significant effects or critical hazards.

12 SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

	Product/ingredient	Result	Species	Exposition
	Ammonium nitrate	Chronic NOEC 6-12 mg/L - Fresh Water	Cladocera Crustaceans	21 hours
	Potassiun nitrate	Acute LC50 1.378 mg/L -Fresh water OECD 203	Daphnie	48 hours
		Acute EC50 490 mg/L -Fresh water Acute EC50 > 1,700 mg/l-Fresh water	Algae	240 hours
12.2	Persistence and	No data available to date to the best of c	our knowledge	
12.3	degradability Bioaccumulative potential	No data available to date to the best of c	our knowledge	
12.4	Mobility in soil	No data available to date to the best of c	our knowledge. Waste genera	ation should be avoided or

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

12.5	Results of PBT and
	vPvB assessment
12.6	Other adverse effects

There is no data available.

ts No known significant effects or critical hazards.

13 SECTION 13 : DISPOSAL CONSIDERATIONS

	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
13.1		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.
		DualPart Grow Hard Water can be disposed of as you would any other industrial fertilizer. Follow
		local legislation.
	Waste codes / waste designations according to Law:	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	Not regulated. Non-hazardous transport
14.2	UN proper shipping name	Not regulated. Non-hazardous transport
14.3	Transport hazard class(es)	Not regulated. Non-hazardous transport
	ADR IMDG OACI/IATA	Not regulated. Non-hazardous transport
14.4	Packing group	Not regulated. Non-hazardous transport
14.5	Environmental hazards	None
14.6	Special precautions for	
	user	Not regulated. Non-hazardous transport
14.7	user Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not regulated. Non-hazardous transport Not regulated. Non-hazardous transport
14.7 15	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	

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 16.1 Abbreviations and acronyms: ETA = Acute Toxicity Estimation CLP = Regulation not carried out 16.1 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 DMEL = Derived no-effect dose DMEL = Derived no-effect concentration RRN = REACH registration number PTB = Presistent, Toxic and Bioaccumulative vB = Body mass Regulation (EC) 107/2006 of the European Parliament (REACH) Regulation (EC) 107/2009 of the European Parliament (CLP) Regulation (EC) 107/2009 of the European Parliament (CLP) Regulation (EC) 107/2009 of the European Parliament (LP) Regulation (EC) 107/2009 of the European Parliament (LP) Regulation (EC) 1072/2008 of the European Parliament (LP) Regulation (EC) 107/2009 of the European Parliament (LP) Regulation (EC) 107/2009 of the European Parliament (LP) Regulation (EC) 107/2009 of the European Parliament (LP) Regulation (EC) 107/2009 of the European Parliament (LP) Regulation (EC) 107/2009 of the European Parliament (
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Version :4
Modification: Section 1.3, Company name.
16.4 Classification and procedure used to The indicated mixture does not require an SDS according to the REACH requirements. This sheet
derive the is for information purposes only.
classification for mixtures This safety data sheet complies with the requirements set out in Reg. 830/2015/EU. It does not
according to exempt the user from knowing and applying all the documents that govern his activity. The user Regulation (EC)
1272/2008 [CLP]: will take under his responsibility the precautions related to the specific use of the product. All the
Note 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
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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.