

Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

Creation date : 01/01/08
Revision date : 27/02/23
Version: 5



1 SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

A. Trade name **DUALPART BLOOM**

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

Relevant identified uses of the substance or mixture
DualPart Bloom is a blend of mineral salts formulated and mixed in proportions that ensure optimal nutrition for plants.

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

Company's name
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 / rescue services **999**
Fire and rescue **999**
Police **101**
EU emergency call line **112**
ORFILA Toxicological Information Center (INRS) **(+) 33 01 45 41 59 59**
Toxicological information center
South West **(+)33 05 61 77 74 47**

2 SECTION 2 Hazards identification

Reg. 1272/2008/CLP

Danger pictogram



Hazard statement

H272 May intensify fire; oxidiser.
H319 Causes serious eye irritation.

Warning statement

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P102 Keep out of reach of children.

2.3 Other hazards

None

3 SECTION 3 Composition/information on ingredients

3.1 Substances Non applicable

3.2 Mixtures DualPart Bloom

Description	DualPart Bloom is a blend of mineral salts, formulated and mixed in proportions that ensure optimal nutrition for plants. The exact nature of the salts and their proportions are a manufacturing secret. However, they are derived from : magnesium sulfate, monopotassium phosphate, ammonium nitrate, magnesium chloride
Chemical Name	Magnesium sulfate
Concentration	10~20%
CAS NO.	heptahydrate 10034-99-8
Chemical Name	Ammonium nitrate
Concentration	1~5%
CAS NO.	6484-52-2
Additional data for identification of hazardous substances	Non applicable

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

In case of eye contact Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes.

In case of skin contact Rinse thoroughly with water for at least 15 minutes. Remove contaminated clothing. If the skin is red or puffy, or if an irritation persists, consult a doctor.

In case of ingestion/aspiration Do not give anything by mouth to an unconscious or convulsing person. If a person has swallowed this product and is conscious, give small amounts of water to drink to dilute the product.

In case of inhalation Under normal conditions of use, inhalation is unlikely. If inhaled, move to fresh air and if necessary, assist breathing. In case of breathing difficulties, consult a doctor as soon as possible.

Protection of first aid providers 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 first aid. If your clothing is contaminated with a chemical substance during first aid administration, change them.

Other data 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** No known symptoms

4.3 **Indication of any immediate medical attention and special treatment needed** 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 Use dry chemical, carbon dioxide, water spray (mist) or foam.
Inappropriate extinguishing media In case of fire, do not use: Water jet

5.2 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 compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of products.

Decomposition products may include the following materials:

oxides of nitrogen

ammoniac

Fire water contaminated with this product should be contained and prevented from entering a watercourse or sewer.

5.3 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. Beware of water flows resulting from firefighting. Do not discharge fire extinguishing material into drains or sewers.

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, medicine kit, etc.) in accordance with Directive 89/654/EC.

5.4 Other data

Non applicable

6 SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel Ensure proper ventilation. Wear gloves and safety glasses to avoid stains or risk of splashing.

In case of accidental release of large quantities, evacuate all personnel and allow access only to trained personnel wearing appropriate personal protective equipment (see section 8).

6.1.2 For emergency responders

Workers will be equipped with personal protective equipment appropriate to the possible hazards. (See section 8)

6.2 Environmental precautions

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

6.3.1 Containment method

Sewer coverage

6.3.2	Cleaning procedure	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.
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 extraction. Store in a cool, dry place. Keep container tightly closed in a dry, well-ventilated place. Close containers before and after each use to avoid sources of moisture or heat. If possible in areas with waterproof pavement.
7.3	Specific end use(s)	No specific end uses. Good practice: keep in closed and labeled containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with impervious pavement.

8 SECTION 8 Exposure controls/personal protection

8.1	Control parameters	Not applicable Follow good industrial hygiene practices.
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	No particular control
8.2.2	Individual protection measures, such as personal protective equipment	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.
a)	Eye/face protection	It is necessary to wear protective glasses in accordance with the NF EN166 standard before any handling of products in order to avoid the risks of projection.
b)	Skin protection	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product to avoid stains. Use suitable chemical-resistant protective gloves in accordance with NF EN374.
c)	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.

8.3 Environmental exposure controls No data available. Biodegradable product

9 SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state	All DualPartBloom compounds are in aqueous solution.
b)	Colour	Light Brown
c)	Odour	No odor
d)	Melting point/freezing point	Not determined
e)	Boiling point or initial boiling point and boiling range	Not determined
f)	Flammability	Non inflammable
g)	Lower and upper explosion limit	Not applicable
h)	Flash point	Not determined
i)	Auto-ignition temperature	Not determined
j)	Decomposition temperature	Not determined
k)	pH	4.12
l)	Kinematic viscosity	Not determined
m)	Solubility	Entirely soluble
n)	Partition coefficient n-octanol/water (log value)	Not determined
o)	Vapour pressure	Not determined
p)	Density and/or relative density	1.18
q)	Relative vapour density	Not determined
r)	Particle characteristics	Not determined

9.2 Other information

9.2.1 Information with regard to physical hazard classes None

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	DualPart Bloom 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.
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	DualPart Bloom contains elements that are strong oxidizers that can react with strong bases to give off ammonium. It can also react with strong reducing agents.
10.6 Hazardous decomposition products	Under normal conditions of storage and use, no hazardous decomposition products are expected.

11 SECTION 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a)	acute toxicity	Most of the chemicals in DualPart Bloom are toxic by ingestion, inhalation or skin contact
	Product/ Ingredient	Ammonium nitrate
	Result/ Dose/ Species/ Exposure	DLC 50 oral/ 2.950mg/kg/ Rat/ Not applicable
	Result/ Dose/ Species/ Exposure	DLC 50 dermal/ >5000mg/kg/ Rat/ Not applicable

	Conclusion	No known significant effects or critical hazards.
b)	skin corrosion/irritation	Slight irritation if exposed for 72 hours without precautions
c)	serious eye damage/irritation	Causes serious eye irritation.
d)	respiratory or skin sensitisation	No data available
e)	germ cell mutagenicity	No data available
f)	carcinogenicity	No data available
g)	reproductive toxicity	No data available
h)	STOT-single exposure	No data available
i)	STOT-repeated exposure	No data available
j)	aspiration hazard	No data available
11.1.5	Information on likely routes of exposure	
	Ingestion	Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.
	Inhalation	Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.
	Skin exposure	Slight irritation possible. Wash down with water.
	Eye Exposure	Irritation possible. Wash down with water.
11.1.6	Symptoms related to the physical, chemical and toxicological characteristics	No known effect
11.1.7	Delayed and immediate effects as well as chronic effects from short and long-term exposure	No known effect
11.1.8	Interactive effects	No data available
11.1.9	Absence of specific data	No data available
11.1.10	Mixtures	No data available
11.1.11	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.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	No data available
12	SECTION 12 Ecological information	
12.1	Toxicity	Not known risks.
	Product/ Ingredient	Ammonium nitrate
	Result/ Dose/ Species/ Exposure	Chronic NOEC 6 to 12 mg/L - Freshwater / Cladocera crustaceans / 21 days
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
12.4	Mobility in soil	No data available to date to the best of our knowledge
12.5	Results of PBT and vPvB assessment	No data available to date to the best of our knowledge
12.6	Endocrine disrupting properties	No data available to date to the best of our knowledge
12.7	Other adverse effects	No data available to date to the best of our knowledge
13	SECTION 13 Disposal considerations	
13.1	Waste treatment methods	Do not discharge into 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.

Recover the product as much as possible. Follow local legislation.

Waste List Code

Not determined

14 SECTION 14 Transport information

14.1	UN number or ID number	Non-hazardous transport
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	
	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	Maritime transport in bulk according to IMO instruments	Non applicable

15 SECTION 15 Regulatory information

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

Reg. 1272/2008/EC

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/EC (REACH)

Not applicable

Special risks

None to our knowledge.

15.2 Chemical safety assessment

Evaluation not carried out

16 SECTION 16 Other information

16.1 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS NUMBER: Chemical Abstract Service number

EC50: Concentration that gives effect to 50% of the test population.

EC NUMBER: Identification number in ESIS (European archive of existing substances)

CLP: Regulation EC 1272/2008

DNEL: Calculated No Effect Level

IATA DGR: International Air Transport Association Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50

LD50: Lethal Dose 50%.

OEL: Occupational Exposure Level

PBT: Persistent, Bioaccumulative and Toxic according to REACH

PEC: Predicted Environmental Concentration

PEL: Predicted Exposure Level

PNEC: Predicted No Effect Concentration

REACH: Regulation EC 1907/2006

vPvB: Very Persistent and Bioaccumulative according to REACH

16.2 Bibliographical references

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)

INRS - Toxicological Data Sheet

Patty - Industrial hygiene and toxicology

ECHA website

16.3 Changes from the previous version

New version date

27/02/2023

Previous version date

03/01/2022

Version

5

Modified elements

Update According to Regulation (EU) 2020/878

16.4 Note

This safety data sheet complies with the requirements established by Commission Regulation (EU) 2020/878 of 18 June 2020. It does not exempt the user from knowing and applying all the documents governing his activity. The user is responsible for taking precautions related to the specific use of the product. All regulatory requirements listed are intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical instructions for use but does not replace them. This safety data sheet has been compiled by Terra Aquatica on the basis of its current knowledge (safety data sheets of the active ingredients compiled by the manufacturer and other literature). The information contained herein is based on our knowledge of the product at the date indicated. It is given in good faith. 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 information describes the safety aspects of the product. They are not intended to guarantee specific properties.

The recipient must ensure that he is not responsible for anything other than the mentioned texts. It is the responsibility of the users to observe the applicable regulations.

Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

Creation date : 01/01/08
Revision date : 28/02/23
Version: 5



1 SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
A. Trade name	DUALPART GROW HARD WATER
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses of the substance or mixture	DualPart Grow Hard Water is a blend of mineral salts formulated and mixed in proportions that ensure optimal nutrition for plants.
Uses advised against	Any use not specified in this section or in section 7.3
1.3 Details of the supplier of the safety data sheet	
Company's name	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 / rescue services	999
Fire and rescue	999
Police	101
EU emergency call line	112
ORFILA Toxicological Information Center (INRS)	(+) 33 01 45 41 59 59
Toxicological information center 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	
Additional information	None
Hazards for humans	None
Environmental risks	None
Physico-chemical hazards	None
Other hazards	
2.2 Label elements	
In accordance with Reg. 1272/2008/CLP and its adaptations	

Danger pictogram



Hazard Word

DANGER

Hazard statement

H272 May intensify fire; oxidiser.
H318 Causes serious eye damage.

Warning statement

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P301 IF SWALLOWED:

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P102 Keep out of reach of children.

None

2.3 Other hazards

3 SECTION 3 Composition/information on ingredients

3.1 Substances

Non applicable

3.2 Mixtures

DualPart Grow Hard Water

Description

DualPart Grow Hard Water is a blend of mineral salts, formulated and mixed in proportions that ensure optimal nutrition for plants. The exact nature of the salts and their proportions are a manufacturing secret. However, they are derived from :

Potassium nitrate, magnesium chloride, ammonium nitrate, potassium carbonate

Chemical Name

Potassium nitrate

Concentration

$\geq 10 \leq 20\%$

CAS NO.

7757-79-1

In case of eye contact

Ammonium nitrate

$\geq 2 \leq 5\%$

Chemical Name

6484-52-2

Concentration

Calcium nitrate

CAS NO.

$\geq 2 \leq 5\%$

Additional data for identification of hazardous substances

15245-12-2

Non applicable

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

In case of eye contact

Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes, keeping eyelids open. Check if the victim wears contact lenses and, if so, remove them. Seek medical attention immediately.

In case of skin contact

Rinse thoroughly with water for at least 15 minutes. Remove contaminated clothing. If the skin is red or puffy, or if an irritation persists, consult a doctor.

In case of ingestion/aspiration

Do not give anything by mouth to an unconscious or convulsing person. If a person has swallowed this product and is conscious, give small amounts of water to drink to dilute the product.

In case of inhalation

Under normal conditions of use, inhalation is unlikely. If inhaled, move to fresh air and if necessary, assist breathing. In case of breathing difficulties, consult a doctor as soon as possible.

Protection of first aid providers

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 first aid. If your clothing is contaminated with a chemical substance during first aid administration, change them.

Other data	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	No known symptoms
4.3	Indication of any immediate medical attention and special treatment needed	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	Use dry chemical, carbon dioxide, water spray (mist) or foam.
	Inappropriate extinguishing media	In case of fire, do not use: Water jet
5.2	Special hazards arising from the substance or mixture	<p>Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.</p> <p>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 products.</p> <p>Decomposition products may include the following materials: oxides of nitrogen ammoniac oxides of sulfur oxides of phosphorus metal oxide / metal oxides</p> <p>This product is toxic to aquatic life. Fire water contaminated with this product should be contained and prevented from entering a watercourse or sewer.</p>
5.3	Advice for firefighters	<p>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.</p> <p>Keep containers away from fire if it can be done without risk. Use water or spray to keep containers exposed to fire cool. Beware of water flows resulting from firefighting. Do not discharge fire extinguishing material into drains or sewers.</p>
	Protective actions to be taken when fighting fires	
	Appropriate protective equipment	<p>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.</p>
5.4	Other data	Non applicable

6 SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Ensure proper ventilation. Wear gloves and safety glasses to avoid stains or risk of splashing.
In case of accidental release of large quantities, evacuate all personnel and allow access only to trained personnel wearing appropriate personal protective equipment (see section 8).

6.1.2 For emergency responders
Workers will be equipped with personal protective equipment appropriate to the possible hazards. (See section 8)

6.2 Environmental precautions

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

6.3.1 Containment method

Sewer coverage

6.3.2 Cleaning procedure

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 mopped with inert, non-combustible materials such as sand or soil. These materials must then be placed in appropriate containers. Do not dispose of in gutters or sewers. Do not discard any residue.

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 extraction.

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

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

If possible in areas with waterproof pavement.

7.3 Specific end use(s)	<p>No specific end uses.</p> <p>Good practice: keep in closed and labeled containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with impervious pavement.</p>
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8 SECTION 8 Exposure controls/personal protection

8.1 Control parameters	<p>Not applicable. No known exposure limit values.</p> <p>Follow good industrial hygiene practices.</p>
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	<p>No particular control</p>
8.2.2 Individual protection measures, such as personal protective equipment	<p>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.</p> <p>Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.</p>
a) Eye/face protection	<p>It is necessary to wear protective glasses in accordance with the NF EN166 standard before any handling of products in order to avoid the risks of projection.</p>
b) Skin protection	<p>Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product to avoid stains.</p> <p>Use suitable chemical-resistant protective gloves in accordance with NF EN374.</p>
c) Respiratory protection	<p>Ensure adequate ventilation, especially in enclosed areas. Respiratory protection device not required.</p> <p>Wear appropriate protective clothing.</p> <p>After contact with the product, all soiled body parts should be washed.</p>
Body protection	
8.3 Environmental exposure controls	<p>No data available. Biodegradable product</p>

9 SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties		
a) Physical state	All DualPart Grow Hard Water compounds are in aqueous solution.	
b) Colour	Yellow green	
c) Odour	No odor	
d) Melting point/freezing point	Not determined	
e) Boiling point or initial boiling point and boiling range	Not determined	
f) Flammability	Non inflammable	
g) Lower and upper explosion limit	Not applicable	
h) Flash point	Not determined	
i) Auto-ignition temperature	Not determined	
j) Decomposition temperature	Not determined	
k) pH	3.74	
l) Kinematic viscosity	Not determined	
m) Solubility	Entirely soluble	
n) Partition coefficient n-octanol/water (log value)	Not determined	
o) Vapour pressure	Not determined	
p) Density and/or relative density	1.12	
q) Relative vapour density	Not determined	

r) Particle characteristics Not determined

9.2 Other information

9.2.1 Information with regard to physical hazard classes None

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 DualPart Grow Hard Water 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.

10.4 Conditions to avoid No risk of dangerous reactions under normal use and storage conditions

10.5 Incompatible materials No special conditions to avoid.

10.6 Hazardous decomposition products DualPart Grow Hard Water contains elements that are strong oxidizers that can react with strong bases to give off ammonium. It can also react with strong reducing agents.

11 SECTION 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity No known toxicological effects
Product/ Ingredient Potassium nitrate
Result/ Dose/ Species/ Exposure DLC 50 oral / > 2000 mg/kg-5000 mg/kg / Rat/ Not applicable
DLC 50 cutaneous / > 5000 mg/kg/ Rat/ Not applicable
Product/ Ingredient Ammonium nitrate
Result/ Dose/ Species/ Exposure CSD 50 oral/ >2950mg/kg/ Rat/ Not applicable
CSD 50 dermal/ >5000mg/kg/ Rat/ Not applicable
Product/ Ingredient Calcium nitrate
Result/ Dose/ Species/ Exposure OECD 423
CSD 50 oral/ 500mg/kg/ Rat/ Not applicable
CSD 50 dermal/ 2000mg - 5000 mg/kg/ Rat/ Not applicable
Conclusion No known significant effects or critical hazards.

b) Skin corrosion/irritation No data available

c) Serious eye damage/irritation No data available
Product/ Ingredient (component) Nitric acid, ammonium and calcium salt
OECD 405
Result/ Dose/ Species/ Exposure Eyes/ damage / Rabbit/ 24h-72h

d) Respiratory or skin sensitisation No data available

e) Germ cell mutagenicity No data available

f) Carcinogenicity No data available

g) Reproductive toxicity No data available

h) STOT-single exposure No data available

i) STOT-repeated exposure No data available

j) Aspiration hazard No data available

11.1.5 Information on likely routes of exposure
Ingestion Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards. May be irritating to mouth, throat and stomach.

	Inhalation	Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.
	Skin exposure Eye Exposure	Slight irritation possible. Wash down with water. Causes serious eye damage.
11.1.6	Symptoms related to the physical, chemical and toxicological characteristics	No known effect
11.1.7	Delayed and immediate effects as well as chronic effects from short and long-term exposure	No known effect
11.1.8	Interactive effects	No data available
11.1.9	Absence of specific data	No data available
11.1.10	Mixtures	No data available
11.1.11	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.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	No data available
12	SECTION 12 Ecological information	
12.1	Toxicity	Not known risks. Potassium nitrate
	Product/ Ingredient	
	Result/ Dose/ Species/ Exposure	Acute LC50 1378 mg/L fresh water OECD 203 / daphnia / 48h Acute EC50 490 mg/L fresh water / algae / 240h Acute EC50 > 1700 mg/l fresh water / algae / 240h
	Product/ Ingredient	Ammonium nitrate
	Result/ Dose/ Species/ Exposure	Chronic NOEC 6 to 12 mg/L - Freshwater / Cladocera crustaceans / 21 days
	Product/ Ingredient	Calcium nitrate
	Method /Result / Species / Exposure	Acute LC50 fresh water/ 447 mg/l / fish/ 48 OECD 202 Acute EC50 fresh water/ >100mg/l/ Daphnia / 48h OECD 201 Acute LC50 fresh water/ >100 mg/l / Algae / 72h
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
12.4	Mobility in soil	No data available to date to the best of our knowledge
12.5	Results of PBT and vPvB assessment	No data available to date to the best of our knowledge
12.6	Endocrine disrupting properties	No data available to date to the best of our knowledge
12.7	Other adverse effects	No data available to date to the best of our knowledge
13	SECTION 13 Disposal considerations	
13.1	Waste treatment methods	Do not discharge into 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.

Recover the product as much as possible. Follow local legislation.

Not determined

Waste List Code

14 SECTION 14 Transport information

14.1 UN number or ID number Non-hazardous transport

14.2 UN proper shipping name Non-hazardous transport

14.3 Transport hazard class(es)
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 Maritime transport in bulk according to IMO instruments Non applicable

15 SECTION 15 Regulatory information

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

Reg. 1272/2008/EC

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/EC (REACH)

Not applicable

Special risks

None to our knowledge.

15.2 Chemical safety assessment Evaluation not carried out

16 SECTION 16 Other information

16.1 Abbreviations and acronyms ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS NUMBER: Chemical Abstract Service number

EC50: Concentration that gives effect to 50% of the test population.

EC NUMBER: Identification number in ESIS (European archive of existing substances)

CLP: Regulation EC 1272/2008

DNEL: Calculated No Effect Level

IATA DGR: International Air Transport Association Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50

LD50: Lethal Dose 50%.

OEL: Occupational Exposure Level

PBT: Persistent, Bioaccumulative and Toxic according to REACH

PEC: Predicted Environmental Concentration

	PEL: Predicted Exposure Level PNEC: Predicted No Effect Concentration REACH: Regulation EC 1907/2006 vPvB: Very Persistent and Bioaccumulative according to REACH 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) INRS - Toxicological Data Sheet Patty - Industrial hygiene and toxicology ECHA website
16.2	Bibliographical references
16.3	Changes from the previous version
	New version date 28/02/2023 Previous version date 03/01/2022 Version 5 Modified elements Update According to Regulation (EU) 2020/878
16.4	Note

This safety data sheet complies with the requirements established by Commission Regulation (EU) 2020/878 of 18 June 2020. It does not exempt the user from knowing and applying all the documents governing his activity. The user is responsible for taking precautions related to the specific use of the product. All regulatory requirements listed are intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical instructions for use but does not replace them. This safety data sheet has been compiled by Terra Aquatica on the basis of its current knowledge (safety data sheets of the active ingredients compiled by the manufacturer and other literature). The information contained herein is based on our knowledge of the product at the date indicated. It is given in good faith. 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 information describes the safety aspects of the product. They are not intended to guarantee specific properties.

The recipient must ensure that he is not responsible for anything other than the mentioned texts. It is the responsibility of the users to observe the applicable regulations.

Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

Creation date : 01/01/08
Revision date : 28/02/23
Version: 5



1 SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier	
A. Trade name	DUALPART GROW SOFT WATER
1.2 Relevant identified uses of the substance or mixture and uses advised against	
Relevant identified uses of the substance or mixture	DualPart Grow Soft Water is a blend of mineral salts formulated and mixed in proportions that ensure optimal nutrition for plants.
Uses advised against	Any use not specified in this section or in section 7.3
1.3 Details of the supplier of the safety data sheet	
Company's name	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 / rescue services	999
Fire and rescue	999
Police	101
EU emergency call line	112
ORFILA Toxicological Information Center (INRS)	(+) 33 01 45 41 59 59
Toxicological information center 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	
Additional information	None
Hazards for humans	None
Environmental risks	None
Physico-chemical hazards	None
Other hazards	
2.2 Label elements	
In accordance with Reg. 1272/2008/CLP and its adaptations	

Danger pictogram



Hazard Word
Hazard statement

DANGER

Warning statement

H272 May intensify fire; oxidiser.
H318 Causes serious eye damage.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P220 Keep away from clothing and other combustible materials.

P301 IF SWALLOWED:

P312 Call a POISON CENTER/doctor/... if you feel unwell.

P102 Keep out of reach of children.

None

2.3 Other hazards

3 SECTION 3 Composition/information on ingredients

3.1 Substances

Non applicable

3.2 Mixtures

DualPart Grow Soft Water

Description

DualPart Grow Soft Water is a blend of mineral salts, formulated and mixed in proportions that ensure optimal nutrition for plants. The exact nature of the salts and their proportions are a manufacturing secret. However, they are derived from :

Chemical Name

Potassium nitrate, magnesium chloride, ammonium nitrate, potassium carbonate

Concentration

Potassium nitrate

CAS NO.

$\geq 10 \leq 20\%$

Chemical Name

7757-79-1

Concentration

Calcium nitrate

CAS NO.

$\geq 10 \leq 20\%$

15245-12-2

In case of eye contact

Ammonium nitrate

$\geq 2 \leq 5\%$

Additional data for identification of hazardous substances

6484-52-2

Non applicable

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

In case of eye contact

Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes, keeping eyelids open. Check if the victim wears contact lenses and, if so, remove them. Seek medical attention immediately.

In case of skin contact

Rinse thoroughly with water for at least 15 minutes. Remove contaminated clothing. If the skin is red or puffy, or if an irritation persists, consult a doctor.

In case of ingestion/aspiration

Do not give anything by mouth to an unconscious or convulsing person. If a person has swallowed this product and is conscious, give small amounts of water to drink to dilute the product.

In case of inhalation

Under normal conditions of use, inhalation is unlikely. If inhaled, move to fresh air and if necessary, assist breathing. In case of breathing difficulties, consult a doctor as soon as possible.

Protection of first aid providers

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 first aid. If your clothing is contaminated with a chemical substance during first aid administration, change them.

Other data	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	No known symptoms
4.3	Indication of any immediate medical attention and special treatment needed	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	Use dry chemical, carbon dioxide, water spray (mist) or foam.
	Inappropriate extinguishing media	In case of fire, do not use: Water jet
5.2	Special hazards arising from the substance or mixture	<p>Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.</p> <p>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 products.</p> <p>Decomposition products may include the following materials: oxides of nitrogen ammoniac oxides of sulfur oxides of phosphorus metal oxide / metal oxides</p> <p>This product is toxic to aquatic life. Fire water contaminated with this product should be contained and prevented from entering a watercourse or sewer.</p>
5.3	Advice for firefighters	<p>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.</p> <p>Keep containers away from fire if it can be done without risk. Use water or spray to keep containers exposed to fire cool. Beware of water flows resulting from firefighting. Do not discharge fire extinguishing material into drains or sewers.</p>
	Protective actions to be taken when fighting fires	
	Appropriate protective equipment	<p>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.</p>
5.4	Other data	Non applicable

6 SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
Ensure proper ventilation. Wear gloves and safety glasses to avoid stains or risk of splashing.
In case of accidental release of large quantities, evacuate all personnel and allow access only to trained personnel wearing appropriate personal protective equipment (see section 8).

6.1.2 For emergency responders
Workers will be equipped with personal protective equipment appropriate to the possible hazards. (See section 8)

6.2 Environmental precautions

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

6.3.1 Containment method
Sewer coverage

6.3.2 Cleaning procedure
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 mopped with inert, non-combustible materials such as sand or soil. These materials must then be placed in appropriate containers. Do not dispose of in gutters or sewers. Do not discard any residue.

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 extraction.
Store in a cool, dry place. Keep container tightly closed in a dry, well-ventilated place.
Close containers before and after each use to avoid sources of moisture or heat.
If possible in areas with waterproof pavement.

7.3 Specific end use(s)	<p>No specific end uses.</p> <p>Good practice: keep in closed and labeled containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with impervious pavement.</p>
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8 SECTION 8 Exposure controls/personal protection

8.1 Control parameters	<p>Not applicable. No known exposure limit values.</p> <p>Follow good industrial hygiene practices.</p>
8.2 Exposure controls	
8.2.1 Appropriate engineering controls	<p>No particular control</p>
8.2.2 Individual protection measures, such as personal protective equipment	<p>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.</p> <p>Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.</p>
a) Eye/face protection	<p>It is necessary to wear protective glasses in accordance with the NF EN166 standard before any handling of products in order to avoid the risks of projection.</p>
b) Skin protection	<p>Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product to avoid stains.</p> <p>Use suitable chemical-resistant protective gloves in accordance with NF EN374.</p>
c) Respiratory protection	<p>Ensure adequate ventilation, especially in enclosed areas. Respiratory protection device not required.</p>
Body protection	<p>Wear appropriate protective clothing.</p> <p>After contact with the product, all soiled body parts should be washed.</p>
8.3 Environmental exposure controls	<p>No data available. Biodegradable product</p>

9 SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties		
a) Physical state	All DualPart Grow Soft Water compounds are in aqueous solution.	
b) Colour	Yellow green	
c) Odour	No odor	
d) Melting point/freezing point	Not determined	
e) Boiling point or initial boiling point and boiling range	Not determined	
f) Flammability	Non inflammable	
g) Lower and upper explosion limit	Not applicable	
h) Flash point	Not determined	
i) Auto-ignition temperature	Not determined	
j) Decomposition temperature	Not determined	
k) pH	3,18	
l) Kinematic viscosity	Not determined	
m) Solubility	Entirely soluble	
n) Partition coefficient n-octanol/water (log value)	Not determined	
o) Vapour pressure	Not determined	
p) Density and/or relative density	1,17	
q) Relative vapour density	Not determined	

r) Particle characteristics Not determined

9.2 Other information

9.2.1 Information with regard to physical hazard classes None

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 DualPart Grow Soft Water 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.

10.4 Conditions to avoid No risk of dangerous reactions under normal use and storage conditions

10.5 Incompatible materials No special conditions to avoid.

10.6 Hazardous decomposition products DualPart Grow Soft Water contains elements that are strong oxidizers that can react with strong bases to give off ammonium. It can also react with strong reducing agents.

11 SECTION 11 Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

a) Acute toxicity No known toxicological effects
Product/ Ingredient Potassium nitrate
Result/ Dose/ Species/ Exposure DLC 50 oral / > 2000 mg/kg-5000 mg/kg / Rat/ Not applicable
DLC 50 cutaneous / > 5000 mg/kg/ Rat/ Not applicable
Product/ Ingredient Calcium nitrate
Result/ Dose/ Species/ Exposure OECD 423
CSD 50 oral/ 500mg/kg/ Rat/ Not applicable
CSD 50 dermal/ 2000mg - 5000 mg/kg/ Rat/ Not applicable
Product/ Ingredient Ammonium nitrate
Result/ Dose/ Species/ Exposure CSD 50 oral/ >2950mg/kg/ Rat/ Not applicable
CSD 50 dermal/ >5000mg/kg/ Rat/ Not applicable
Conclusion No known significant effects or critical hazards.

b) Skin corrosion/irritation No data available

c) Serious eye damage/irritation No data available
Product/ Ingredient (component) Nitric acid, ammonium and calcium salt
Result/ Dose/ Species/ Exposure OECD 405
Eyes/ damage / Rabbit/ 24h-72h

d) Respiratory or skin sensitisation No data available

e) Germ cell mutagenicity No data available

f) Carcinogenicity No data available

g) Reproductive toxicity No data available

h) STOT-single exposure No data available

i) STOT-repeated exposure No data available

j) Aspiration hazard No data available

11.1.5 Information on likely routes of exposure

Ingestion Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards. May be irritating to mouth, throat and stomach.

	Inhalation	Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.
	Skin exposure	Slight irritation possible. Wash down with water.
	Eye Exposure	Causes serious eye damage.
11.1.6	Symptoms related to the physical, chemical and toxicological characteristics	No known effect
11.1.7	Delayed and immediate effects as well as chronic effects from short and long-term exposure	No known effect
11.1.8	Interactive effects	No data available
11.1.9	Absence of specific data	No data available
11.1.10	Mixtures	No data available
11.1.11	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.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	No data available
12	SECTION 12 Ecological information	
12.1	Toxicity	Not known risks.
	Product/ Ingredient	Potassium nitrate
	Result/ Dose/ Species/ Exposure	Acute LC50 1378 mg/L fresh water OECD 203 / daphnia / 48h Acute EC50 490 mg/L fresh water / algae / 240h Acute EC50 > 1700 mg/l fresh water / algae / 240h
	Product/ Ingredient	Ammonium nitrate
	Result/ Dose/ Species/ Exposure	Chronic NOEC 6 to 12 mg/L - Freshwater / Cladocera crustaceans / 21 days
	Product/ Ingredient	Calcium nitrate
	Method /Result / Species / Exposure	Acute LC50 fresh water/ 447 mg/l / fish/ 48 OECD 202 Acute EC50 fresh water/ >100mg/l/ Daphnia / 48h OECD 201 Acute LC50 fresh water/ >100 mg/l / Algae / 72h
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
12.4	Mobility in soil	No data available to date to the best of our knowledge
12.5	Results of PBT and vPvB assessment	No data available to date to the best of our knowledge
12.6	Endocrine disrupting properties	No data available to date to the best of our knowledge
12.7	Other adverse effects	No data available to date to the best of our knowledge
13	SECTION 13 Disposal considerations	
13.1	Waste treatment methods	Do not discharge into 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.

Recover the product as much as possible. Follow local legislation.

Waste List Code

Not determined

14 SECTION 14 Transport information

14.1	UN number or ID number	Non-hazardous transport
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	
	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	Maritime transport in bulk according to IMO instruments	Non applicable

15 SECTION 15 Regulatory information

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

Reg. 1272/2008/EC

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/EC (REACH)

Not applicable

Special risks

None to our knowledge.

15.2 Chemical safety assessment

Evaluation not carried out

16 SECTION 16 Other information

16.1 Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS NUMBER: Chemical Abstract Service number

EC50: Concentration that gives effect to 50% of the test population.

EC NUMBER: Identification number in ESIS (European archive of existing substances)

CLP: Regulation EC 1272/2008

DNEL: Calculated No Effect Level

IATA DGR: International Air Transport Association Dangerous Goods Regulations

IMDG: International Maritime Dangerous Goods Code

IMO: International Maritime Organization

LC50: Lethal concentration 50

LD50: Lethal Dose 50%.

OEL: Occupational Exposure Level

PBT: Persistent, Bioaccumulative and Toxic according to REACH

PEC: Predicted Environmental Concentration

	PEL: Predicted Exposure Level PNEC: Predicted No Effect Concentration REACH: Regulation EC 1907/2006 vPvB: Very Persistent and Bioaccumulative according to REACH 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) INRS - Toxicological Data Sheet Patty - Industrial hygiene and toxicology ECHA website
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16.4	Note

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The information describes the safety aspects of the product. They are not intended to guarantee specific properties.

The recipient must ensure that he is not responsible for anything other than the mentioned texts. It is the responsibility of the users to observe the applicable regulations.