



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

DualPart Bloom

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 BLOOM

1.2 Relevant identified uses of the substance or mixture and uses advised against Relevant Identified Uses :
DualPart Bloom is a blend of mineral salts formulated and blended in proportions that ensure optimal nutrition for plants.
Uses not recommended: Any use not specified in this section or in section 7.3.
Use Descriptor System (REACH): No data available (not applicable).

1.3 Details of the supplier of the safety data sheet

Supplier identification Terra Aquatica
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
Police	101
EU Emergency call line	112
Toxicological Information Centre ORFILA (INRS)	+33 01 45 41 59 59
Toxicological Information Centre South West	+33 05 61 77 74 47

2 SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Reg. 1272/2008/CLP In accordance with Regulation No. 1272/2008 (CLP), the product is not considered dangerous.

Additional information :

Hazards for humans	None
Environmental hazards	None
Physico-chemical hazards	None
Other hazards	None

Labelling elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

2.2 Hazard pictograms None

Signal word None

Hazardous substances to be indicated on the label None

Hazard statements None

Warning statement P102 Keep out of reach of children

P-phrases (Reg. 1272/2008/CLP)

Additional hazard information (EU) None

2.3 Other hazards

Reg. 1272/2008/CLP None

3 SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1 **Substances** Non applicable

3.2 **Mixtures**
Trade Name DualPart Bloom

Ingredient name Non applicable

Mixtures classified as dangerous Non applicable

Description DualPart Bloom is a mixture of mineral salts, formulated and blended in proportions that ensure optimal nutrition for plants. The exact nature of the salts as well as their proportions are a manufacturing secret. However, they are derived from : Magnesium Chloride, Ammonium Nitrate, Magnesium Sulphate.

Chemical name	Concentration (%)	CAS Number
Ammonium nitrate	1-5	6484-52-2
Magnesium sulphate	10-20	anhydrous 7487-88-9 heptahydrate 10034-99-8

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 Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention.

Following skin contact	Flush contaminated skin with plenty of soapy water. Remove impregnated clothing. Get medical attention if symptoms occur.
Following ingestion	Do not induce vomiting. Rinse mouth with water and drink small amounts of water if conscious. Seek medical attention by showing 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
4.2	Most important symptoms and effects, both acute and delayed
	No known effects
4.3	Indication of any immediate medical attention and special treatment needed
	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

5 SECTION 5 : FIREFIGHTING MEASURES

5.1	Extinguishing media	<p>The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions.</p> <p><u>Suitable extinguishing media:</u></p> <p>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.</p> <p><u>Inappropriate extinguishing media:</u></p> <p>In case of fire, do not use: Water jet</p>
5.2	Special hazards arising from the substance or mixture	<p>Due to its flammability characteristics, the product does not contain a fire hazard under normal conditions of storage, handling and use.</p> <p>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.</p> <p>Decomposition products may include the following materials :</p> <p>oxides of nitrogen</p> <p>sulphur oxides</p> <p>phosphorus oxides</p> <p>metal oxide / metal oxides</p> <p>Fire water contaminated with this product should be contained and prevented from being discharged to a watercourse or sewer.</p>
5.3	Advice for firefighters	<p><u>Protective actions to be taken when fighting fires</u></p> <p>Isolate the site quickly 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 containers away from fire if it can be done without risk. Use water or water spray to keep</p>

containers exposed to fire cool.

Appropriate protective equipment

The product is not combustible. In the event of fire in the surrounding area, appropriate extinguishing means and protective equipment for the other materials present (full protective clothing and personal respiratory equipment), complying with EN469 for a basic level of protection for chemical incidents, may be used. Have a minimum of emergency facilities or intervention elements (fireproof blankets, first-aid kit...) according to 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

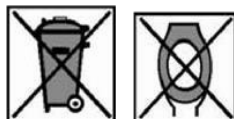
For non-emergency personnel

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

If necessary, responders will be equipped with appropriate personal protective equipment. (See section 8)

6.2 Environmental precautions



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.

6.4 Reference to other sections

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

Personal protective equipment: see section 8

Withdrawal considerations: see section 13.

See section 1 for emergency contact information.

7 SECTION 7 : HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid formation of suspended particles and dispersion of the product in the air.

Provide adequate ventilation in areas where suspended particles develop.

Keep away from flames and sparks. Do not smoke. Keep away from heat and other sources of fire.

Do not eat, drink or smoke in work areas.

Wash hands after each use.

7.2 Conditions for safe storage, including any incompatibilities

Ensure adequate local ventilation or exhaust.

Store 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.

Store in waterproof paved areas if possible.

7.3 Specific end use(s)

No specific end uses.

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

8 SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

8.1 Control parameters

Not applicable

8.1

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 personal protective equipment

No personal protection required. In general, use individual protections placed on the market in accordance with the provisions of Regulation (EU) 2016/425 of the European Parliament and of the Council of 9 March 2016.

Personal protective equipment must be adapted to the risk, kept clean and properly maintained in accordance with the provisions of the Labour Code.

Eye/face protection

Il est nécessaire de porter des lunettes de protection conformes à la norme NF EN166 avant toute manipulation de produits chimiques.

Skin protection

Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product.

Chemical-resistant, impervious gloves complying with an approved standard (NF EN374) should be worn at all times when handling chemical products.

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 must be washed.

Environmental exposure controls

No available data

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance

Physical state: liquid

Color: Light brown

Odour

None

pH

4.12

Melting point

Not available

Freezing point

Not available

Initial boiling point and boiling range

Not available

Flash point

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	1.18
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 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 under normal storage and handling conditions.
10.3	Possibility of hazardous reactions	No risk of dangerous reactions under normal conditions of use and storage.
10.4	Conditions to avoid	No special conditions to avoid. Comply with usual precautionary practices regarding chemicals.
10.5	Incompatible materials	DualPart Bloom 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 products	At very high temperatures, decomposition products are formed: phosphorus oxide, magnesium oxide, potassium oxide(s), carbon monoxide and sulphur oxide(s).

11 SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) acute toxicity

Ingredient name	Result	Species	Dose	Exposure
Ammonium nitrate	LD50 Oral	Rat	2217 mg/kg	Non applicable

(b) skin corrosion/irritation;
(c) serious eye
There is no data available.

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

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

No known significant effects or critical hazards.

Interactive effects

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 information

Mixture not containing substances that are subject to registration.

No known adverse effects or symptoms resulting from exposure to the mixture or its constituent substances.

Other information

Comply with good industrial hygiene practices

12 SECTION 12 : ECOLOGICAL INFORMATION

12.1	Toxicity	Non applicable		
	Product/ingredient	Result	Species	Exposition
	Ammonium nitrate	Chronic NOEC 6-12 mg/L – Soft Water	Cladocera Crustaceans	21 hours
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. Waste generation 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	There is no data available.		
12.6	Other adverse effects	No known significant effects or critical hazards.		

13 SECTION 13 : DISPOSAL CONSIDERATIONS

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

Disposal of the product/packaging: Disposal into sewers or waterways is prohibited. Residues and empty containers must be handled and disposed of in accordance with the relevant local/national legislation in force.

Follow the provisions of Directive 2008/98/EC on waste management.

DualPart Bloom 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	-
14.3	Transport hazard class(es)	Not regulated. Non-hazardous transport
	ADR	Not regulated. Non-hazardous transport
	IMDG	
	OACI/IATA	
14.4	Packing group	-
14.5	Environmental hazards	None
14.6	Special precautions for user	Not regulated. Non-hazardous transport
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not regulated. Non-hazardous transport

15 SECTION 15 :REGULATORY INFORMATION

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

15.1	Reg. 1272/2008/CE	The product does not contain substances that can be classified as carcinogenic. 1 or 2 according to Reg.1272/2008/EC and subsequent updates.
	Reg. 830/2015/CE (REACH)	Not applicable
	Special hazards	None
15.2	Chemical safety assessment	Evaluation not carried out

16 SECTION 16 : OTHER INFORMATION

16.1	Abbreviations and acronyms:	ETA = Acute Toxicity Estimation CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and
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		<p>mixtures</p> <p>DNEL = Derived no-effect dose</p> <p>DMEL = Derived no-effect dose</p> <p>EUH = Specific hazard statement CLP</p> <p>CPSE = Predicted no-effect concentration</p> <p>RRN = REACH registration number</p> <p>PTB = Persistent, Toxic and Bioaccumulative</p> <p>tPtB = Very persistent and very bioaccumulative</p> <p>bw = Body mass</p>
16.2	Key literature references and sources for data	<p>Regulation (EC) 1907/2006 of the European Parliament (REACH)</p> <p>Regulation (EC) 1272/2008 of the European Parliament (CLP)</p> <p>Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)</p> <p>Regulation (EC) 453/2010 of the European Parliament Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)</p> <p>The Merck index. Ed. 10 Handling and chemical safety</p> <p>Niosh - Register of toxic effects of chemical substances</p> <p>INRS - Toxicological Data Sheet</p> <p>Patty - Industrial hygiene and toxicology</p> <p>N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989</p> <p>ECHA website</p>
16.3	Indication of changes:	<p>Date of revision: 03/01/2022</p> <p>Previous version date: 18/02/2020</p> <p>Version :4</p> <p>Modification: Section 1.3, Company name</p>
16.4	Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:	<p>The indicated mixture does not require an SDS according to the REACH requirements. SDS is for information purposes only.</p> <p>This safety data sheet complies with the requirements set out in Reg. 830/2015/EU. It does not exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are simply intended to help the recipient to assume his responsibilities. This list should not be considered exhaustive. This data sheet supplements the technical instructions for use but does not replace them. The information 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 created. The recipient must ensure that he is not liable for anything other than what is stated in the texts other than those mentioned.</p> <p>The information describes the safety aspects of the product. It is not intended to guarantee specific properties.</p> <p>It is the responsibility of our customers to observe the applicable regulations.</p>
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