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

TriPart Micro SoftWater

Date : 01 Janvier 2008 Version No. 4 Review date: 01fevrier2020

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

Product identifier

1.1 Product name: TRIPARTMICRO SOFT WATER

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

Relevant identified uses of the substance or mixture:

TriPart Micro Soft Water is a mixture of mineral salts formulated and mixed in proportions that ensure optimal plant nutrition.

Uses advised against:

Any use not specified in this section or in section 7.3

Use Descriptor System (REACH): No data available (not applicable).

1.3 Details of the supplier of the safety data sheet

Supplier identification	Général Hydroponics Europe
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	**15**
Fire and rescue services	**18**
Police	**17**
EU Emergency call line	**112**
Toxicological Information Centre ORFILA (INRS)	**01 45 41 59 59**
Toxicological Information Centre South West	**05 61 77 74 47**

2 SECTION 2 : HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

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

Additional information :

Hazards for humans	None
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	None
	Hazardous substances to be indicated on the label	None
	Hazard statements H:	None
	Precautionary statements P:	Phrases P P102 Keep out of reach of children
2.3	**Other hazards**	
	Reg. 1272/2008/CLP	None

3 SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1	**Substances**	Non applicable
3.2	**Mixtures** **Name**	TRIPARTMICRO SOFT WATER
	Description	TriPart Micro SoftWater is a specially formulated blend of chemicals that are blended in proportions that ensure optimal plant nutrition. The chemical identity of the compounds and the exact proportions used in the mixture are a trade secret; however, they are derived from : Potassium nitrate, magnesium nitrate, nitric acid, copper nitrate, ammonium sulphate, ammonium nitrate, potassium borate, iron EDDHA chelate, manganese and zinc EDTA chelates, sodium molybdate, calcium nitrate and cobalt sulphate.

Chemical name	Concentration (%)	N°CAS
Ammonium nitrate	≥1 - ≤3	6484-52-2
Calcium ammonium nitrate	≥50- ≤75	15245-12-2

4 SECTION 4 : FIRST AID MEASURES

No known incidents of damage to persons who have used this product.
However, in case of doubt or if symptoms persist, seek medical attention. Do not give anything by mouth to an unconscious person. The general measures described below should be adopted:

4.1 **Description of first aid measures**

Following eye contact	Wash immediately with plenty of water, keeping the eyelids well apart, and consult a specialist.
Following skin contact	Rinse thoroughly with soapy water. Remove contaminated clothing.
Following ingestion	Delay the absorption of ingested TriPart Micro SoftWater by giving milk or activated charcoal and then remove it by gastric lavage. Maintain blood pressure.

	Following inhalation	Do not induce vomiting, seek medical attention immediately by showing the product label. Move the victim to fresh air. Keep the victim warm and at rest. In case of breathing difficulty: call a doctor.
	Self-protection of the first aider	Depending on the first aid context, wear appropriate protective equipment including a mask or respirator. Always wear protective gloves and a resuscitation mask in case of artificial respiration. Wash hands thoroughly after giving first aid. If clothing becomes contaminated with a chemical during first aid procedures, change clothing.
	Other information	For further details of first aid administration, including but not limited to more serious health effects, the doctor may consult the Toxicological Information Centre, hotline: see section 1.4
4.2	**Most important symptoms and effects, both acute and delayed**	**Potential acute health effects:** No known effect / no data are available. **Signs/symptoms of overexposure:** No specific data.
4.3	**Indication of any immediate medical attention and special treatment needed**	Note to the attending physician Symptomatic treatment required. No special treatment. 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

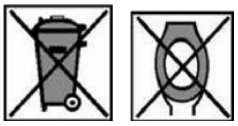
5.1	**Extinguishing media**	The product is not flammable. Fire hazard low due to the flammability characteristics of the product under normal storage, handling and use conditions. Suitable extinguishing media: In the event of continued combustion, caused by improper handling, storage or use, the following 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 mixture**	Hazards due to the substance or mixture: Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions. Risk related to thermal decomposition products: A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe dust, vapours or fumes released by the combustion of the products. Decomposition products may include the following materials: Carbon dioxide Carbon monoxide Nitrogen oxides Metal oxide / metal oxides
5.3	**Advice for firefighters**	<u>Protective actions to be taken when fighting fires</u> Quickly 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 containers away from fire if it can be done without risk. Use water or water spray to keep containers exposed to fire cool. <u>Appropriate protective equipment</u>

5.4	**Other information**	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. 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	Ensure good ventilation. In case of accidental release of a large quantity, evacuate all personnel and allow access only to trained operators with appropriate personal protective equipment. (See section 8)
For emergency responders	Responders will be equipped with appropriate personal protective equipment. (See section 8)

6.2	**Environmental precautions**	 Avoid contamination of soil, sewers, surface water and groundwater. If this happens, inform the competent authorities.

6.3 Methods and material for containment and cleaning up

For containment:	Sewer coverage
For cleaning up:	Mechanically collect the spilled product and remove any residues by water jets. Provide adequate ventilation at the location of the spill. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. 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.
	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.
7.2		Close containers before and after each use to avoid sources of moisture or heat. Store in labelled bottles.
		Store in waterproof areas if possible.
	Specific end use(s)	No specific end uses.
7.3		Good practices: keep in closed containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with waterproof pavement.

8 SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION

8.1	**Control parameters**	Not applicable
		Respect good industrial hygiene practices.
8.2	**Exposure controls**	
	Appropriate engineering controls	No particular control. Good general ventilation should be sufficient to control workers' exposure to airborne contaminants.
	Individual protection measures, such as personal protective equipment	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.
		If needed, 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	It is necessary to wear protective glasses in accordance with NF EN166 before handling any chemical products.
	Skin protection	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product.
		Use suitable 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 must be washed.
	Environmental exposure controls	No data available.

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1	**Information on basic physical and chemical properties**	
	Appearance	Physical state: All TriPart Micro Soft Water compounds are in aqueous solution (liquid)
		Color: brown (dark brown).
	Odour	No odor
	pH	5.8
	Melting point	Not Applicable
	Freezing point	-1.11°C (30°F)
	Initial boiling point and boiling range	Not determined
	Flash point	Not determined
	Evaporation rate	Not determined
	Flammability (solid,	Non inflammable

	gas)	
	Upper/lower flammability or explosive limits	Not applicable
	Vapour pressure	Not determined
	Vapour density	Not determined
	Relative density	1.25
	Solubility(ies) 20°C	Entirely Soluble
	Partition coefficient: n-octanol/water	Not determined
	Auto-ignition temperature	Not determined
	Decomposition temperature	Not determined
	Viscosity	Not determined
	Explosive properties	Not determined
	Oxidising properties	Not determined
	Refraction index	Not determined
	Rotary power	Not determined

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**	The product 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. Comply with usual precautionary practices regarding chemicals.
10.5	**Incompatible materials**	TriPart Micro Soft Water contains elements that can react with strong bases to release ammonium. It can also react with powerful reducers.
10.6	**Hazardous decomposition products**	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11 SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

a) acute toxicity; (b) skin corrosion/irritation; (c) serious eye damage/irritation; (d) respiratory or skin sensitisation; (e) germ cell mutagenicity; (f) carcinogenicity; (g) reproductive toxicity; (h) STOT-single exposure; (i) STOT-repeated exposure; (j) aspiration hazard	Most of the chemicals in TriPart Micro Soft Water are toxic by ingestion, inhalation or eye or skin contact.

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: Slight irritation. No known significant effects or critical hazards. Eye exposure: Slight irritation. No known significant effects or critical hazards.
Delayed and immediate effects as well as chronic effects from short- and long-term exposure	Health effects are considered unlikely if the product is used as recommended.
Interactive effects	No data available
Absence of specific data	No data available
Mixtures	No data available
Mixture versus substance information	Mixture not containing substances subject to registration. No known adverse effects or symptoms resulting from exposure to the mixture or its components.
Other information	Comply with good industrial hygiene practices

12 SECTION 12 : ECOLOGICAL INFORMATION

12.1 Toxicity

No known significant effects or critical hazards.

12.2 Persistence and degradability

Product/Ingredient	Result	Species	Dosage	Exposition
Calcium ammonium nitrate	LD50 Oral	Rat	4715 mg/kg	-
Ammonium nitrate	LD50 Oral	Rat	2217 mg/kg	-

12.3 Bioaccumulative potential

There is no data available.

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

TriPart Micro SoftWater can be disposed of as you would any industrial fertilizer.

Do not flush to sewers or waterways.

Waste: Waste management is done without endangering human health and without harming the environment, including water, air, soil, fauna and flora.

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.

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

Waste codes / waste designations according to LoW: Not applicable

14 SECTION 14 : TRANSPORT INFORMATION

Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6

14.1	**UN number**	Not regulated. Non-hazardous transport
14.2	**UN proper shipping name**	Non-hazardous transport
14.3	**Transport hazard class(es)**	Non-hazardous transport
	ADR	Not regulated. Non-hazardous transport
	IMDG	
	OACI/IATA	
14.4	**Packing group**	Non-hazardous transport
14.5	**Environmental hazards**	Non-hazardous transport
14.6	**Special precautions for user**	Non-hazardous transport
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Non-hazardous transport

15 SECTION 15 : REGULATORY INFORMATION

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

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

	Abbreviations and acronyms:	ETA = Acute Toxicity Estimation CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures DNEL = Derived no-effect dose DMEL = Derived no-effect dose EUH = Specific hazard statement CLP CPSE = Predicted no-effect concentration RRN = REACH registration number PTB = Persistent, Toxic and Bioaccumulative tPtB = Very persistent and very bioaccumulative bw = Body mass
16.1	**Key literature references and**	Regulation (EC) 1907/2006 of the European Parliament (REACH)

16.2	**sources for data**	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) The Merck index. Ed. 10 Handling and chemical safety Niosh - Register of toxic effects of chemical substances INRS - Toxicological Data Sheet Patty - Industrial hygiene and toxicology N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989 ECHA website
16.3	**Indication of changes:**	Revision date: 01/02/2020 Previous version date: 25/06/2019 Version :4 Changes: Sections 5.3, 7.2
16.4	**Note**	The indicated mixture does not require an SDS according to the REACH requirements. This sheet is for information purposes only. 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 GHE 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. 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.