

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

## TriPart Grow

Date : 01 January 2008

Version No. 4

Review date: 01 February 2020

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

#### Product identifier

**1.1 Product name:** TriPart Grow

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

Relevant Identified Uses :

TriPart Grow is a blend of mineral salts formulated and blended in proportions that ensure optimal plant nutrition.

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 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	<b>15</b>
Fire and rescue services	<b>18</b>
Police	<b>17</b>
EU Emergency call line	<b>112</b>
Toxicological Information Centre ORFILA (INRS)	<b>01 45 41 59 59</b>
Toxicological Information Centre South West	<b>05 61 77 74 47</b>

### 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]

<b>2.2</b>	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
<b>2.3</b>	<b>Other hazards</b>	
	Reg. 1272/2008/CLP	None

### 3 SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

<b>3.1</b>	<b>Substances</b>	Non applicable	
<b>3.2</b>	<b>Mixtures Name</b>	TriPart Grow	
	<b>Description</b>	TriPart Grow is a mixture of mineral salts, formulated and blended in proportions that ensure optimal plant nutrition. The exact nature of the salts as well as their proportions are a manufacturing secret. However, they are derived from: Potassium nitrate, magnesium sulphate, ammonium nitrate, mono potassium phosphate, potassium carbonate.	
	Chemical name	Concentration (%)	N°CAS
	Ammonium nitrate	3 - 5	6484-52-2
	Potassium Nitrate	0-1	7757-79-1

### 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

Following eye contact	Wash immediately with plenty of water, keeping the eyelids well apart, and consult a specialist.
Following skin contact	Rinse thoroughly with water and soap. Remove contaminated clothing.
Following ingestion	Do not induce vomiting. Seek medical attention immediately by showing the product label.
Following inhalation	If inhaled, move to fresh air, and keep the victim warm and rested. In case of breathing difficulties, consult a doctor as soon as possible.
Self-protection of the first aider	Depending on the first aid context, 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 it.

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.

**Indication of any**

Note to the attending physician

**4.3 immediate medical**

Symptomatic treatment required. No special treatment.

**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

**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 (CO<sub>2</sub>), foam, chemical powders, and in the event of a widespread fire, also water spray.

**5.1**

Inappropriate extinguishing media:

In case of fire, do not use: Water jet

**Special hazards arising from the substance or mixture**

Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.

Risk related to thermal decomposition products:

**5.2**

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:

nitrogen oxides

sulphur oxides

phosphorus oxides

metal oxide / metal oxides

This product is toxic to aquatic life. Fire water contaminated with this product must be contained and prevented from being discharged into a watercourse or sewer.

**Advice for firefighters**

Protective actions to be taken when fighting fires

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.

**5.3**

Appropriate protective equipment

The product is not combustible. In the event of a fire in the surrounding area, appropriate extinguishing media and protective equipment may be used for the other materials present (full protective clothing and personal respiratory equipment), in accordance with EN469 for a basic level of protection against chemical incidents. Have a minimum of emergency facilities or

intervention elements (fire blankets, medicine kit, etc.) in accordance with Directive 89/654/EC.

#### 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

5.4

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

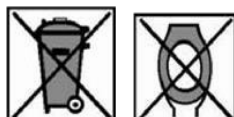
Ensure good ventilation.

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)

#### Environmental precautions



6.2

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

### Methods and material for containment and cleaning up

6.3

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. The disposal of the contaminated material must be carried out in accordance with the provisions of point 13.

#### Reference to other sections

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

Personal protective equipment: see section 8

Withdrawal considerations: see section 13.

See section 1 for emergency contact information.

6.4

## 7 SECTION 7 : HANDLING AND STORAGE

### 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.

7.1

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 impermeable paved 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

Use 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

Use individual protection 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 compliance 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 Grow compounds are in aqueous solution (liquid)

Color: Green

Odour

No odor

pH

4.2

Melting point

-1°C (30.2°F)

Freezing point

Not applicable

Initial boiling point and boiling range

101°C (213.8°F)

Flash point

Not applicable

Evaporation rate

Not applicable

Flammability (solid, gas)

Non inflammable

Upper/lower flammability or explosive limits

Not applicable

Vapour pressure

Not determined

Vapour density

Not determined

Relative density

1.14

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	None
Oxidising properties	None
Refraction index	Not determined
Rotary power	Not determined

## 9.2

### Other information

No other information

## 10 SECTION 10 : STABILITY AND REACTIVITY

<b>10.1</b>	<b>Reactivity</b>	No specific reactivity test data are available for this product or its components in normal conditions of use.
<b>10.2</b>	<b>Chemical stability</b>	The product is stable at room temperature in closed packages and under normal storage and handling conditions.
<b>10.3</b>	<b>Possibility of hazardous reactions</b>	No hazardous polymerization can be produced by any of these components No risk of dangerous reactions under normal use and storage conditions.
<b>10.4</b>	<b>Conditions to avoid</b>	No special conditions to avoid. Comply with usual precautionary practices regarding chemicals.
<b>10.5</b>	<b>Incompatible materials</b>	TriPart Grow contains elements that are powerful oxidants that can react with strong bases to release ammonium. It can also react with powerful reducers.
<b>10.6</b>	<b>Hazardous decomposition products</b>	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;

Product/ingredient name	Result	Species	Dose	Exposure
Ammonium nitrate	LD50 Oral	Rat	2217 mg/kg	No applicable
Potassium nitrate	LD50 Oral	Rat	2.000-5.000 mg/ kg	
	LD50 Skin	Rat	> 5.000 mg/kg	

Conclusion / Summary: No known significant effects or critical hazards.

(b) Skin corrosion / skin irritation No known significant effects or critical hazards.

(c) serious eye damage/irritation;  
(d) respiratory or skin sensitisation;  
(e) germ cell mutagenicity;  
(f) carcinogenicity;  
(g) reproductive toxicity;  
(h) STOT-single exposure;  
(i) STOT-repeated exposure;  
(j) aspiration hazard

Symptoms related to the physical, chemical and toxicological characteristics	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

<b>12.1 Toxicity</b>	No known significant effects or critical hazards.			
	Product/ingredient name	Result	Species	Exposure
	Ammonium nitrate	Chronic NOEC 6 to 12 mg/L Fresh water	Crustaceans - Cladocera Crustaces	21 days
	Potassium nitrate	Acute LC50 1.378 mg/L - Fresh water	Daphnia - Daphnia magna - Young	48h
		Acute LC50 490 mg/L Fresh water	Marine water Algae	240h
		Acute LC50 1.700 mg/L/L Fresh water	Marine water Algae	
<b>12.2 Persistence and degradability</b>	No data available to date to the best of our knowledge			
<b>12.3 Bioaccumulative potential</b>	No data available to date to the best of our knowledge			
<b>12.4 Mobility in soil</b>	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.			
<b>12.5 Results of PBT and vPvB assessment</b>	No data available to date to the best of our knowledge			
<b>12.6 Other adverse effects</b>	No known significant effects or critical hazards.			

## 13 SECTION 13 : DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	TriPart Gro 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.
<b>13.1</b>	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

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

## 15 SECTION 15 : REGULATORY INFORMATION

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

<b>15.1</b>	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
<b>15.2</b>	<b>Chemical safety assessment</b>	Evaluation not carried out

## 16 SECTION 16 : OTHER INFORMATION

<b>Abbreviations and acronyms:</b>	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 sources for data**

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)

16.2

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  
Modification : sections 5.3 ; 7.2

**Note**

16.4

The indicated mixture does not require an MSDS according to REACH requirements. Form prepared for information purposes.

This safety data sheet complies with the requirements laid down in Reg. 830/2015/EU. It does not in any way exempt the user from knowing and applying all the documents that govern his activity. The user will take under his responsibility the precautions related to the specific use of the product. All the regulatory requirements mentioned are 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.