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**Name of the product**

ALGABIO 3.1.5

**Type of the product**

ALGABIO 3.1.5 is a bio stimulant based on one acid concentrate of Laminaria (deep seaweed) which increase the height and yield of crops and the quality of the finish product. ALGABIO 3.1.5 is specific for organic crops. We add also potassic molasses

**Name address of the producer**



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**Exact composition of ALGABIO 3.1.5**

Concentrate of Laminaria,

N: 3 %,

P: 1 %,

K<sub>2</sub>O: 5 %

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## Usage: recommended crop dosage

Generally, ALGABIO 3.1.5 can be sprayed on plants between 3 to 5 liter per hectare at each treatment. 2 applications will be generally done

Onion: 3 to 5 L/Ha BBCH 13 growth stage and 3 or 5 L/Ha BBCH 40 growth stage

Green pepper: 3 to 5 L/HA one week after planting (DC 13) and 3 or 5 L/Ha beginning of flowering

Soybean: 3 to 5 L/Ha 4-6 developed trifolium Growth stage and 3 to 5 L/Ha beginning of Flowering

Tomato: 3 to 5 L/Ha one week after dibbling Growth stage and 3 to 5 L/Ha beginning of Flowering

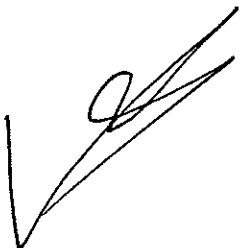
Sunflower: 3 to 5 L/Ha 6-8 leaves stage (BBCH 18) and 3 to 5 L/Ha Star stage (BBCH 51)

Maize: 3 to 5 L/Ha 6-8 leaves and 3 to 5 L/Ha 15 days later

Grape: 3 to 5 L/Ha per application

Fruit trees: 3 to 5 L/Ha per application

ALL CROPS: 3 to 5 L/Ha per application

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## **Fire Hazard classification**



**SAFETY DATA SHEET**

*In compliance with EC Regulation No. 1907/2006*

*Updated on : 17/03/2014 – Version : 2.0*

**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

**1.1. Product identification**

**ALGABIO 3.1.5**

Potassic vinasse solution

**1.2. Relevant identified uses of the substance or mixture**

Algae based fertilizer

**1.3 Data relative to supplier of Safety data sheet**

AGRIMER

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**1.4. Emergency phone numbers :**

Orfilla France (INRS) : + 33 (0)1 45 42 59 59

Centre Anti-Poison (Rennes) : + 33 (0)2 99 5922 22

**SECTION 2 - HAZARD IDENTIFICATION**

**2.1. Classification of substance or mixture**

According to EC Directive 67/548/EC or EC Directive 1999/45/EC, or EC Regulation 1272/2008 : none

## 2.2. Labeling elements

Labeling according to EC Directive 67/548/EC or EC Directive 1999/45/EC: none

Labeling according to EC Directive 1272/2008 : none

Hazard pictograms : none

Hazard statements : none

Precautionary statements :

Wear gloves and protective eyewear.

Do not eat, smoke, or drink while handling the product. Wash hands after handling product.

P102 : Keep out of reach of children

P103 : Read label before use

P501 : Dispose of contents / container in accordance with local/regional/ national/ international regulations

## 2.3. Other hazards :

No further relevant information

## SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

Components with hazard statements :

Component	Classification according to EC Regulation 1272/2008	Classification according to EC Directive 67/548/EEC or EC Directive 1999/45/EC	Composition	Classification of mixture
Phosphoric acid CAS : 7664-38-2	Skin corr 1 B H314	Corrosive C R34	< 3.75 %	no
Sodium benzoate CAS : 532-32-1 EINECS : 208-534-8 N° d'enregistrement REACH : 01-2119460683-35	Eye irrit 2 H319	XI R36	< 1 %	no

Other components :

Potassic vinasse

Laminary extract (algae)

Nitrogen (3%) + Phosphor P (1%) + Potassium K2O (6%)

## SECTION 4 – FIRST AID MEASURES

### 4.1. Description of first aid measures

In case of :

- Inhalation: not specifically concerned (aqueous liquid), provide fresh air.
- Eyes: rinse immediately and abundantly with water for 15 minutes, and consult an ophtalmologist.
- Skin: remove soiled clothes, rinse abundantly for 15 minutes. Consult a doctor in case of itching and redness.

- Ingestion: rinse mouth with water and drink large amounts of water. Consult a doctor immediately. Do not vomit.

**4.2. Most important symptoms and effects, both acute and delayed**

Depending on the type of exposition: redness, stinging, itching, nausea, vomiting, diarrhea...

**4.3. Indication of any immediate attention and special treatment needed**

No further relevant information available.

**SECTION 5 – FIRE FIGHTING MEASURES**

**5.1. Extinguishing media**

**Suitable extinguishing agents:** all types of extinguishing agents are suitable (CO<sub>2</sub>, extinguishing powder, water spray, alcohol resistant foam...)

**Specific hazards:** possible emission of toxic fumes. Collect contaminated fire extinguishing water separately and eliminate according to applicable regulation

**Protective equipment :** fire-fighting masks

**5.2. Specific hazards arising from the substance or mixture**

No further information available, emissions resulting from combustion may contain sulfur oxides and nitrogen oxides.

**5.3. Advice for firefighters**

Do not enter or stay in hazardous area without protective clothing and autonomous breathing equipment

**SECTION 6 – ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes and skin. Use rubber or latex gloves, and protective eyewear.

**6.2. Environmental precautions**

Contain spills. Do not reject directly in sewer or in the natural environment (surface or groundwater). Inform authorities of any spills.

**6.3. Methods and material for containment and cleaning up**

Do not dilute.

Absorb with liquid binding material. Dispose contaminated material as waste according to item 13.

Do not refill original packaging.

**6.4. Reference to other sections**

See section 8 for information on personal protective equipment

See section 13 for disposal information.

**SECTION 7 – HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Handling : use a chemical protection mask, rubber or latex gloves, protective eyewear

Avoid spilling and accidental projections. Avoid contact with skin and eyes. Do not breathe vapors.

Do not eat, smoke or drink in work area. Wash hands before breaks and after using product.

**7.2. Conditions for safe storage, including incompatibilities**

Storage: in closed container, away from heat or freezing temperatures. Do not store close to food products or drinks, including animal feed. Stacking of pallets must be limited to 2 pallets.

Container: 1000 liter tank, 5 or 10 liter tank. Do not transfer to other containers. Keep product in original container, well closed and with original labeling.

**7.3. Specific end uses**

No further relevant information available

**SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION**

**8.1. Control parameters**

Advice for the workplace : work outdoors or insure a good ventilation/exhaustion at the workplace

Limit values for monitoring at the workplace : no studies have been carried out on the mixture

Components with limit values to be monitored in the workplace :

Phosphoric acid (<3.75%) :

Phosphoric acid (CAS : 7664-38-2)	Local effects
DNEL workers : inhalation – long term exposition	2,92 mg/m3
DNEL Population : inhalation – long term exposition	0,73 mg/m3

Other limit values :



EMV (INRS, France) : 0.2 ppm  
 STEL (INRS, France) : 0.5 ppm, 2 mg/m<sup>3</sup>  
 EU ELV (STEL) : 2 mg/m<sup>3</sup>  
 EU ELV (TWA) : 1 mg/m<sup>3</sup>

**Sodium benzoate (< 1 %) :**

Sodium benzoate (532-32-1)	Local effects	Systemic effects
DNEL workers : inhalation – long term exposition	10,4 mg/m <sup>3</sup>	6.3 mg/m <sup>3</sup>
DNEL workers : skin contact – long term exposition	34,7 mg/kg pc/jour	4.5 mg/cm <sup>2</sup>

**8.2. Exposure controls**

Monitoring means : occupational health services

**Protective equipment**

**Breathing equipment :** P2 filter against dust and aerosols

**Protection of skin:** gloves resistant against chemicals. Protective clothing (plastic sleeve covers, apron, gloves with sleeve covers, single use suits...) depending on use

**Protection of eyes :** protective eyewear

**Specific hygiene measures:** wash hands after handling product. Do not eat, smoke or drink during use of product.

**Protection of the environment:** Empty rinsing water of the original container into the spraying tank of machine for fertilizing.

**SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**Appearance :** Green to brown liquid

**Odor :** typical

**Density :** 1.25 – 1.265

**pH :** 5.32 – 6.05

**Solubility :** fully miscible

**Melting point :** Not determined

**Boiling point:** Not determined

**Decomposition temperature :** Not determined

**Vapor pressure:** not applicable.

**Danger of explosion :** not applicable

**Combustive properties :** not applicable

**9.2. Other information**

No further relevant information available

## SECTEUR 10 – STABILITY AND REACTIVITY

### 10.1 Reactivity

No available data (no particular risks expected)

### 10.2 Chemical stability

The product is stable in the normal conditions of use.

The product may change colors in time, without alteration of its properties.

### 10.3 Possibility of hazardous reactions

No available data (no particular risks expected)

### 10.4 Conditions to avoid

Storage at temperatures above 40 °C and below – 10°C. Avoid contamination by metals, dust, organic substances. Store away from heat, sparks and flames. Store away from direct sunlight.

### 10.5 Incompatible materials

Acids, bases, reductive substances

### 10.6 Hazardous decomposition products

No dangerous decomposition products known. In case of fire, see section 5.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### 11.1 Information relative to toxicological effects

No tests carried out on mixture

**Acute toxicity : not classified**

Data relative to components

Component	Result	Species	Dose	Method
Phosphoric acid	DL50 oral	Rat, female	2600 mg/kg	OECD 423
Phosphoric acid	DL50 dermal	Rabbit	2740 mg/kg	OCDE 404
Sodium benzoate	DL50 oral	Rat	3140 mg/kg	
Sodium benzoate	DL50 dermal	Rabbit	>2000 mg/kg	
Sodium benzoate	CL50 inhalation	rat	12,2 mg/l/4h	

**Irritation /corrosion : mixture not classified**

Phosphoric acid (<3.75%) :

Skin : corrosive effects rabbit OECD 404

Eyes : corrosive effects, rabbit

**Sensitization : mixture not classified**

**Carcenogenicity : no available data for mixture**

Phosphoric acid (<3.75%) :

Not cancerous effects

**Mutagenicity : no data available for mixture**

**Chronical toxicity : no available data for mixture**

Phosphoric acid (<3.75%) :

Not classified as toxic

### 12.1 Toxicity

No studies have been carried out for the mixture.

#### Components :

Component	%	Result	Species	Exposition
Phosphoric acid	<3.75	CL50 : 138 mg/l	Fish, <i>Gambusia affinis</i>	96 h
Phosphoric acid	<3.75	CL50 : 3 – 3.25 mg/l	<i>Lepomis macrochirus</i>	96 h
Phosphoric acid	<3.75	CE50 > 100 mg/l	<i>Daphnia magna</i>	48 h
Phosphoric acid	<3.75	NOEC : 100 mg/l  CE50 > 100 mg/l	Algae ( <i>Desmodesmus subspicatus</i> )	72 h
Phosphoric acid	<3.75	CE50 : 270 mg/l	Bacteria from active sludge	

Component	%	Résultat	espèces	exposition
Sodium benzoate	< 1 %	CL50 > 100 mg/l	fish	96 h
Sodium benzoate	< 1 %	CE50 > 100 mg/l	daphnia	48 h
Sodium benzoate	< 1 %	CE50 > 100 mg/l	algae	72 h

### 12.2 Persistence and degradability

No negative impact expected on wastewater treatment plant. All components are degradable or biodegradable.

### 12.3 Bioaccumulative potential

No critical hazard identified, mixture should not bioaccumulate

### 12.4 Mobility in soil

No studies carried out on mixture

### 12.5 Results of PBT and vPvB assessments

<p>No studies have been carried out on mixture</p> <p><b>12.6 Other adverse effects</b></p> <p>No further relevant information</p>	
<p><b>SECTION 13 – DISPOSAL CONSIDERATIONS</b></p>	
<p><b>13.1 Waste treatment method</b></p> <p>Residues: Must be disposed according to applicable regulations.</p> <p>Must not be disposed in sewage system.</p> <p>Destruction of packaging : Eliminate cardboards, pallets, containers according to applicable regulations.</p> <p>Recommended cleaning agent: Empty rinsing water of the original container into the spraying tank of machine for fertilizing.</p>	
<p><b>SECTION 14 - TRANSPORT INFORMATION</b></p>	
<p><b>14.1. UN Number :</b> not regulated</p> <p><b>14.2 UN shipping name :</b> not regulated</p> <p><b>14.3 Transport hazard class :</b></p> <p>Road (ADR 2011) : not regulated</p> <p>Maritime (IDMG 2011) : not regulated</p> <p><b>14.4 Packing group :</b> not regulated</p> <p><b>14.5 Environmental hazards :</b> not regulated</p> <p><b>14.6 Specific precautions by the user :</b> no further information available</p> <p><b>14.7 Transport of bulk according to annex II of MARPOL 73/78 convention and IBC Code :</b> not applicable</p>	
<p><b>SECTION 15 – REGULATORY INFORMATION</b></p>	
<p><b>15.1 Safety, health and environmental regulations specific for the substance or mixture :</b></p> <p>Hazard pictograms : none</p> <p>Hazard statements : none</p>	

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture. No exposition scenarios are available.

## SECTION 16 – OTHER INFORMATIONS

The content and the format of the Material Safety Data Sheet comply with EC regulation 1907/2006 and regulation 453/2010.

Details of revision : new format

Risk phrases in section 2 : none

Risk phrases in section 3 :

C : corrosive

Xi : Irritant

R34 : causes burns

R 36 : irritating to eyes

H314 : causes severe skin burns and eye damage

H319 : causes serious eye irritations

*This safety data sheet complements the technical instructions of use. The information is based on the current knowledge relative to the product on the date of the update of the document. The manufacturer will not be held responsible for consequences of the use of the product for uses other than the relevant identified use. This document shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*