**This product does not comply with the provisions relating to Art. 31 of Regulation (EC) No. 1907/2006 and therefore does not require an SDS according to Annex II. This Information Sheet has therefore been prepared in accordance with Art. 32 of the aforementioned Regulation.**

## Section 1. Identification of the substance and of the company

### 1.1 Product identifier

| | | |
|---|---|---|
| Trade name | : | **VEGASTIM®** |
| Substance name | : | Chestnut, Castanea sativa, (aqueous) extract |
| EC Number | : | 283-619-0 |
| REACH Registration Number | : | this substance is exempt from registration according to the provisions of Article 2(7) (b) and Annex V of the REACH Regulation. |
| CAS Number | : | 84695-99-8 |

This substance is not nanoform and do not include nanoforms.

### 1.2 Relevant identified uses of the substance and uses advised against

| | |
|---|---|
| Identified uses | : as “Non-microbial plant biostimulant”, Product Function Category (PFC) 6.B. according to Regulation (EU) 2019/1009; it belongs to Component Material Category (CMC) 2. |
| Uses advised against | : do not use for purposes other than those indicated. |

### 1.3 Details of the supplier of the Information Sheet

| | |
|---|---|
| Manufacturer/Supplier | : **SAVIOLIFE S.r.l.** |
| Street address | : Viale Lombardia, 29 |
| Postcode/Place/Country ID | : 46019 Viadana (MN) – ITALY |
| Telephone number | : +39 375 – 7871 |
| E-mail address of competent person responsible for the SDS | : infosds@sadepan.com |

### 1.4 Emergency telephone number

: +39 - 0375 - 7871 (Only available during office hours)

## Section 2. Hazards Identification

### 2.1 Classification of the substance

#### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

Non-hazardous substance.

#### 2.1.2 Additional information

None.

### 2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP) and subsequent amendments:

Hazard pictograms: not required
Signal word: not required.
Hazard statements: not required

Precautionary statements: not required

2.3 Other hazards

VEGASTIM® contains vegetable tannin, which is a strong intestinal astringent.
VEGASTIM® doesn't meet the criteria as PBT (not PBT) and vPvB criteria (not vPvB) according to Annex XIII of Regulation (EC) No. 1907/2006.
According to the information available, this substance doesn't have endocrine-disrupting properties.

## Section 3. Composition/ Information on ingredients

3.1 Substance :

VEGASTIM® contains:

| Identification name | CAS number | Registration number | Classification 1272/2008/EC | Conc. % weight |
|---|---|---|---|---|
| Chestnut, Castanea sativa, extract | 84695-99-8 | exempted | not dangerous | 48 ÷ 50 |

3.2 Mixture: N.A.

## Section 4. First-aid measures

4.1 Description of first aid measures

General notes: remove contaminated clothing.
In case the injured person may lose consciousness, place him in recovery position and move him away from the accident place.

Eyes contact: remove any contact lenses. Immediately wash the affected eyes with running water for at least 15 minutes, keeping the eyelids open; seek medical attention if persistent irritation occurs.

Skin contact: remove contaminated clothing; wash skin exposed to contact with flushing water and neutral detergent.

Swallowing: immediately rinse the mouth with water; if swallowing has occurred, drink plenty of water or milk and induce vomiting. Seek medical attention.

Inhalation: remove the victim affected by the inhalation from the polluted area and keep him into fresh air. Artificial respiration is not recommended.
Require medical assistance, if necessary.

First responder self-protection: Responders must pay attention to their own safety.

Note for the doctor

Treatment: there are no specific treatments.

4.2 Most important symptoms and effects, both acute and delayed

| | |
|---|---|
| Eye contact: | possible redness of the conjunctiva. |
| Skin contact: | possible redness of the skin. |
| Ingestion: | intestinal astringent. |
| Inhalation: | there are no harmful effects known |

4.3 Indication of any immediate medical attention and special treatment needed

See Section 4.1

## Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: fires involving the product can be extinguished using vaporized water, foam, carbon dioxide or powder extinguishers.

Unsuitable extinguishing media: direct application of a water jet onto a fire.

5.2 Special hazards arising from the substance

The product is non-flammable.
When involved in a fire and heated, the product may decompose and emit toxic fumes of carbon oxide and carbon dioxide. Don't breathe combustion fumes.

5.3 Advice for firefighters

Move away containers from the fire; if this is not possible, cool them with water. The personnel involved must use full face masks or self-contained breathing apparatus and wear appropriate clothing. The water used to extinguish the fire, if contaminated by the product, must be brought to suitable treatment plants.

## Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel
In case of spillage, persons not involved in the emergency should be lifted out of the area concerned. Alert emergency workers; if immediate action is necessary, follow directions and instructions of the staff.

6.1.2 For emergency responders
Thoroughly air out the contaminated area where the spill occurred, if confined.
Prevent contact with skin and eyes by using appropriate clothing. Respiratory protection (See Section 8.2.2).

6.2 Environmental precautions

Prevent the product from leaking into the environment and flowing into drains, surface water and groundwater.

6.3 Methods and material for containment and cleaning up

6.3.1 For containment:
Contain the spill with sand, sawdust or other absorbent material; cover the drains of the sewage system with the appropriate mats.
Storage tanks must be located in areas equipped with containment basins having an adequate capacity. Mobile tanks must be positioned on suitable containment tanks.

6.3.2 For cleaning up:
Suck up and absorb spilled liquid, carefully clean with sawdust or sand.

6.3.3 Other information:
Water can only be used after all the liquid has been removed and the affected surface has been cleaned with absorbent material.

6.4 Reference to other sections

See Section 13 for waste treatment methods.

## Section 7. Handling and Storage

7.1 Precautions for safe handling

Ensure good ventilation of the storage and handling areas.
Loading, unloading and handling operations must be done by skilled staff.
Avoid contact with skin and mucous membranes; protect the respiratory tract, skin and eyes by adopting suitable personal protective equipment (see Section 8.2.2). In case of spillage, ventilate the room and collect the spilled product with sand or other absorbent material (see Section 6).
Do not eat, drink or smoke when using this product.

7.2 Conditions for safe storage, including any incompatibilities

VEGASTIM® is stable for at least 6 months if stored at room temperature away from direct sunlight.
Over time, a slight sedimentation of the product is possible, which can be recovered by stirring.
For better conservation, keep the product temperature between 15 and 25 °C.
It is recommended to store the product in corrosion resistant containers, for example in stainless steel type 1.4301 (AISI 304) or type 1.4401 (AISI 316), fibreglass, polyethylene or polypropylene.
Do not use iron containers or iron equipment.
Avoid contact with strong alkalis and oxidants, jellies, albumins, starches, lime water.

7.3 Specific end use(s):

Plant biostimulant.

## Section 8. Exposure controls / Personal protection

8.1 Control parameters

VEGASTIM® is classified as non-hazardous.

Occupational exposure limit values

For the substance “Chestnut, Castanea sativa, extract” there are no limits for occupational exposure.

**DNEL (Derived No Effect Level):** N.A.

**PNEC (Predicted No Effect Concentration):** N.A.

Information on monitoring procedures

There are no monitoring procedures.

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

VEGASTIM® is classified as not dangerous, however it is advisable to work in well-ventilated areas or to provide adequate localized aspirations.

### 8.2.2 Individual protection measures, such as personal protective equipment

- Respiratory protection

The use of means for respiratory protection is required if the technical measures implemented are not adequate to limit worker exposure to threshold values considered.

- Hand protection:

Protective gloves in compliance with EN 374 standard.
Materials also suitable for direct and prolonged contact (recommendation: minimum protection index 5, corresponding > 240 minutes of permeation time according to standard EN 374):

butyl rubber, thickness 0.7 mm
nitrile rubber (NBR), thickness 0.4 mm

Observe the glove manufacturer's instructions regarding residence time.

- Eye protection:

Provide eyes protection with safety goggles complying EN 166. Avoid contact lenses.

- Body protection:

Wear suitable protective clothing, preferably cotton, for complete skin protection and safety shoes (e.g. according to EN 14605).

- General protection and hygiene measures:

Do not smoke, eat or drink in the working places. Take off immediately contaminated clothing.
Have eye wash bottle or eye rinse ready to use and a shower at workplace.
Wash hands before eating or drinking

### 8.2.3 Environmental exposure controls

VEGASTIM® is classified non-Environmentally Hazardous. However, it must provide that manipulation occurs in confined areas protected by containment against spills and that local exhaust ventilation is conveyed to suitable abatement systems.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | : liquid |
| Colour | : dark brown |
| Odour | : typical of chestnut tannin |
| Melting point / freezing point | : < 2 °C |
| Boiling point or initial boiling point and boiling range | : at about 100 °C at 101.3 kPa |
| Flammability | : not flammable |
| Lower and upper explosion limits | : N.A. |
| Flash point | : not flammable |
| Self-ignition temperature | : N.A. |
| Decomposition temperature | : N.A. |
| pH | : 3.0 ÷ 3.5 (at 20 °C) |
| Kinematic viscosity | : 800 to 1000 $mm^2/s$ at 20 °C |
| Solubility | : soluble in water, alcohols and acetone |
| Partition coefficient n-octanol/water (Log $K_{ow}$): | : 0.3 at 25 °C and at pH=6 (data referring to the dry extract) |
| Vapour pressure | : not experimentally determined (viscous liquid) |
| Density and/or relative density | : 1.22 ÷ 1.26 $kg/dm^3$ |
| Relative vapour density | : not experimentally determined (viscous liquid) |
| Particle characteristics | : N.A. (liquid product) |

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

| | |
|---|---|
| Explosives | : N.A. |
| Flammable gases | : N.A. |
| Aerosols | : N.A. |
| Oxidising gases | : N.A. |
| Pressurised gases | : N.A. |
| Flammable liquids | : non-flammable |
| Flammable solids | : N.A. |
| Self-reactive substances and mixtures | : non-self-reactive substance |
| Pyrophoric liquids | : VEGASTIM® has no pyrophoric properties |
| Pyrophoric solids | : N.A. |
| Self-heating substances and mixtures | : VEGASTIM® is not a self-heating substance |
| Substances and mixtures that emit flammable gases in contact with water | : VEGASTIM® does not emit flammable gases in contact with water |
| Oxidising liquids | : non-oxidising |
| Oxidising solids | : N.A. |

| | |
|---|---|
| Organic peroxides | : VEGASTIM® contains no organic peroxides |
| Substances or mixtures corrosive to metals | : avoid direct contact with iron |
| Desensitising explosives | : N.A. |

9.2.2 Other safety characteristics

| | |
|---|---|
| Mechanical sensitivity | : N.A. |
| Self-accelerating polymerisation temperature | : N.A. |
| Formation of explosive dust/air mixtures | : N.A. |
| Acid/alkaline reserve | : VEGASTIM® does not have an extreme pH (<2 or >11.5). |
| Evaporation rate | : N.A. |
| Miscibility | : N.A. |
| Conductivity | : N.A. |
| Corrosiveness | : see above |
| Gas group | : N.A. |
| Oxidation-reduction potential | : N.A. |
| Potential for radical formation | : N.A. |
| Photocatalytic properties | : N.A. |

## Section 10. Stability and Reactivity

### 10.1 Reactivity

VEGASTIM® is stable under normal conditions of use.

### 10.2 Chemical stability

VEGASTIM® is chemically stable if handled and stored according to good standards (see Sections 7.1, 7.2).

### 10.3 Possibility of hazardous reactions

None known.

### 10.4 Conditions to avoid

Avoid contact with solutions containing alkalis, acids and strong oxidizing agents, gelatin, albumin, starch, lime water, iron (see also Section 7.2).

### 10.5 Incompatible materials

Avoid contact with carbon steel and aluminium, alkalis and oxidizing agents. Handle in stainless steel containers or polyethylene / polypropylene.

### 10.6 Hazardous decomposition products

VEGASTIM® does not decompose when used for intended uses.

## Section 11. Toxicological information

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

| | |
|---|---|
| Acute oral toxicity: | $LD_0$ human N.A. |
| | $LD_{50}$ rat > 2000 mg/kg |
| Acute inhalation toxicity: | No data available. |
| Acute dermal toxicity: | No data available. |
| Skin corrosion/irritation: | No data available. |
| Serious eye damage/irritation: | No data available. |
| Respiratory or skin sensitisation: | No data available. |
| Germ cell mutagenicity: | No data available. |
| Carcinogenicity: | No data available. |
| Reproductive toxicity | No data available. |
| STOT – single exposure: | No data available. |
| STOT – repeated exposure: | No data available. |
| Aspiration hazard: | No data available. |

11.2 Information on other hazards

11.2.1. Endocrine disrupting properties

There are no known adverse health effects caused by the endocrine-disrupting properties of the substance.

11.2.2. Other information

None.

## Section 12. Ecological information

12.1 Toxicity

| | |
|---|---|
| Acute fish toxicity | N.A. |
| Aquatic invertebrates toxicity: | $EC_{50}$ (48 h) 100 mg/L; $EC_{50}$ (24 h) 100 mg/L |
| Algae and aquatic plants toxicity: | N.A. |

12.2 Persistence and degradability

VEGASTIM® is biodegradable (according OECD criteria).

12.3 Bioaccumulate potential

N.A.

12.4 Mobility in soil

N.A.

12.5 Results of PBT and vPvB assessment

Considering the available data, it can be stated that the substance does not fulfil the PBT (non PBT) criteria and PvB (non vPvB) criteria.

12.6 Endocrine-disrupting properties

According to available information, this substance has no endocrine-disrupting properties in relation to non-target organisms as it does not meet the criteria of Section B of Regulation (EU) 2017/2100.

12.7 Other adverse effects

No other adverse effects on the environment are known.

## Section 13. Disposal considerations

13.1 Waste treatment methods

The disposal must be made by dumping on a site approved by the Local or National Authority.

## Section 14. Transport Information

VEGASTIM® is not dangerous good according to transport regulations.

| | | |
|---|---|---|
| 14.1 | UN number or ID number: | N.A. |
| 14.2 | UN proper shipping name: | N.A. |
| 14.3 | Transport hazard class(es): | N.A. |
| 14.4 | Packing group: | N.A. |
| 14.5 | Environmental hazards: | N.A. |
| 14.6 | Special precautions for user: | N.A. |
| 14.7 | Maritime transport in bulk according to IMO instruments: | N.A. |

## Section 15. Regulatory information

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

| | |
|---|---|
| Regulation (EC) 1907/2006 and Regulation (EU) 675/2018 – restrictions according Annex XVII | : Substance not subject |
| Regulation (EC) 1907/2006 and s.a.a., article 59 - Candidate List | : Substance not subject |
| Regulation (EC) 1907/2006 and s.a.a.– Annex XIV Authorization | : Substance not subject |
| Regulation (EU) n. 649/2012 of the European Parliament and of the Council of 4 July 2012 on the export and import of dangerous chemicals | : Substance not subject |
| Regulation (EC) n. 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants | : Substance not subject |

| | |
|---|---|
| Regulation (EU) 2019/1009 of 5 June 2019 laying down rules on the making available on the market of EU fertilising products and amending Regulations (EC) No 1069/2009 and (EC) No 1107/2009 and repealing Regulation (EC) No 2003/2003 | |
| Directive 2012/18/EU of 4 July 2012 (Seveso III Directive) | Not applicable. |

This is not an exhaustive list.

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out for VEGASTIM®.

## Section 16. Other Information

(i) Indication of changes

This IS is in review n° 1.

(ii) Abbreviations and acronyms:

| | |
|---|---|
| […] | Bibliographic reference. |
| **ADN**: | Accord européen relative au transport international des marchandises dangereuses par voies de navigation intérieures. |
| **ADR**: | Accord européen relative au transport international des marchandises dangereuses par route. |
| **CAS** | Chemical Abstract Service number |
| **CLP**: | Classification, Labelling and Packaging. |
| **CSR**: | Chemical Safety Report |
| **DNEL**: | Derived no effect level. |
| **EC:** | European Community |
| **$EC_{50}$** | Concentration that gives effect to 50% of the population subjected to tests. |
| **EU**: | European Union |
| **IMO** | International Maritime Organization. |
| **$LC_{50}$:** | Lethal Concentration: the concentrations of the chemical that kills 50% of the test |
| **$LD_{50}$**: | Lethal Dose: amount of a material which causes the death of 50% (one half) of a group of test animals. |
| **Nanoform:** | Definition contained in the "COMMISSION RECOMMENDATION of 10.6.2022 on the definition of nanomaterial" |
| **N.A.** | Not available or not applicable. |
| **OEL** | Occupational Exposure Limits. |
| **PBT:** | Persistent, bioaccumulative and toxic. |
| **PNEC**: | Predicted no effect concentration. |
| **REACH** | Regulation (EC) 1907/2006. |
| **SVHC:** | Substances of Very High Concern |
| **TLV**: | Threshold limit value. |
| **vPvB**: | Very persistent very bioaccumulative. |

(iii) Key literature references and sources for data:

ECHA website.

(iv) Classification and procedure used to derive the classification for substance according to Regulation (EC) 1272/2008 (CLP)

N.A.

(v) Relevant H-statements (number and full text)

N.A.

(vi) Training advice

N.A.

(vii) Further information

No further information is available.

This product must be stored, handled and used according to the rules of hygiene and safety, good industrial practice and in compliance with current regulations. The information contained herein is based on our current knowledge.
Users must ensure the suitability and completeness of the information in relation to their particular use. No liability is accepted for the misuse of such information.