



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

## TrikoLogic S

Date : 01/04/2013

Version No. 5

Review date: 03/01/2022

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

#### Product identifier

1.1 A. Product name: **TRIKOLOGIC S**

1.2 Relevant identified uses of the substance or mixture and uses advised against  
TrikoLogic is a soil and plant auxiliary substance in compliance with European Regulation 2008/113/EC on organic farming. It improves the health and resistance of plants and strengthens root development.

#### 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 H:                              | None  |
|     | Precautionary statements P:                       | Phrases P<br>P102 Keep out of reach of children |
| 2.3 | <b>Other hazards</b><br>Reg. 1272/2008/CLP        | None  |

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

|     |                      |  |
|-----|----------------------|--|
| 3.1 | <b>Substances</b>    | Non applicable   |
| 3.2 | <b>Mixtures Name</b> | TrikoLogic S   |
|     | <b>Description</b>   | TrikoLogic S is a biological inoculant based on natural fungal spores <i>Streptomyces nigrescens</i> and <i>Trichoderma harzianum</i> and an inert (confidential) carrier. |
|     | <b>Description</b>   | TrikoLogic S is a biological inoculant (fungus), used to control pathogenic fungi. It improves the health and resistance of plants and strengthens root development.       |

### 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              | Slight irritation may occur. Wash immediately with plenty of water, holding eyelids wide apart.   |
| Following skin contact             | Non-irritating. Wash thoroughly with soap and water.  |
| Following ingestion                | Irritation of the mucosa possible. Do not induce vomiting, seek medical attention immediately by showing the product label.   |
| Following inhalation               | Possible nasal irritation. Rinse nose with water.   |
| Self-protection of the first aider | Depending on the first aid context, wear appropriate protective equipment including a mask or filtered respirator. Always wear protective gloves and a resuscitation mask in case of artificial respiration. Wash hands thoroughly after first aid. |
| 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 | <b>Most important symptoms and effects, both acute and delayed</b> | <b>Potential acute health effects:</b><br>No known effect |
|-----|--|---|

**Signs/symptoms of overexposure:**

No specific data

4.3 **Indication of any immediate medical attention and special treatment needed** No data available

## 5 SECTION 5 : FIREFIGHTING MEASURES

- Extinguishing media**
- 5.1 The product is not flammable. Low fire risk due to the flammability characteristics of the product under normal conditions of storage, handling and use.
- Suitable extinguishing media :
- In the event of a surrounding fire or continued combustion caused by improper handling, storage or use, the following extinguishing agents may be used: carbon dioxide (CO<sub>2</sub>), foam, chemical powders, and in the event of a widespread fire, also water spray.
- Unsuitable extinguishing media :
- In case of fire, do not use : Water jet
- Special hazards arising from the substance or mixture**
- 5.2 Given its flammability characteristics, the product does not present a fire risk under normal storage, handling and use conditions.
- A fire in the surrounding area will often produce thick black smoke. Exposure to compositional products may pose health risks. Do not breathe the fumes.
- Advice for firefighters**
- Protective actions to be taken when fighting fires
- Quickly isolate the area by evacuating all persons from the area in the event of a fire. Do not take any action involving personal risk or in the absence of adequate training. Keep containers away from fire if it can be done without risk. Use water or 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**
- 5.4 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

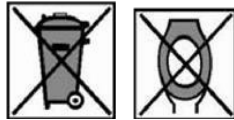
6.1 **Personal precautions, protective equipment and emergency procedures**

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 Emergency responders will be equipped with personal protective equipment appropriate to the nature of the hazard (See section 8).

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

6.2



**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.

6.4

Personal protective equipment: see section 8  
Withdrawal considerations: see section 13.  
See section 1 for emergency contact information.

## 7 SECTION 7 : HANDLING AND STORAGE

**Precautions for safe handling** Avoid the formation of suspended particles and the dispersion of the product in the air.

7.1

Use adequate ventilation in areas where suspended particles develop.  
Keep away from flames and sparks. Do not smoke. Keep away from heat sources 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**

7.2

Ensure adequate local ventilation or extraction.  
Store in a cool, dry place. Keep the container tightly closed in a dry and well-ventilated place.  
Close containers before and after each use to avoid sources of moisture or heat.  
Store in areas with waterproof pavement.  
Avoid contact with strong oxidizing agents.

**Specific end use(s)**

7.3

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

**Control parameters**

8.1

Not applicable  
Respect good industrial hygiene practices.

## 8.2 Exposure controls

|   |  |
|---|--|
| Appropriate engineering controls                                      | No particular control  |
| Individual protection measures, such as personal protective equipment | 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 not necessary to wear safety glasses, but it is possible to wear glasses that comply with the NF EN166 standard before handling any products.  |
| Skin protection   | It is not necessary to wear gloves, but it is possible to wear them.   |
| Respiratory protection  | Ensure adequate ventilation, especially in enclosed areas. No protective equipment is required during normal use of the product.   |
| Body protection   | Not required   |
| Environmental exposure controls                                       | No protective measures.  |

## 9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

|  |   |
|--|---|
| Appearance                                   | Physical state: Solid powder<br>Color: Pale white |
| Odour  | Slight smell of rich soil.                        |
| pH   | 8.3   |
| Melting point                                | Not applicable                                    |
| Freezing point                               | Not determined                                    |
| Initial boiling point and boiling range      | Not determined                                    |
| Flash point                                  | Not determined                                    |
| Evaporation rate                             | Not applicable                                    |
| Flammability (solid, gas)                    | Non inflammable                                   |
| Upper/lower flammability or explosive limits | Not applicable                                    |
| Vapour pressure                              | Not applicable                                    |
| Vapour density                               | Not applicable                                    |
| Relative density                             | 5.5   |
| Solubility(ies) 20°C                         | Entirely soluble                                  |
| Partition coefficient: n-octanol/water       | Not determined                                    |
| Auto-ignition temperature                    | Not determined                                    |
| Not determined                               | Not determined                                    |
| Viscosity                                    | Not determined                                    |
| Explosive properties                         | Non applicable                                    |
| Oxidising properties                         | Not determined                                    |
| Refraction index                             | Not determined                                    |
| Rotary power                                 | Not determined                                    |

## 10 SECTION 10 : STABILITY AND REACTIVITY

|      |                   |   |
|------|-------------------|---|
| 10.1 | <b>Reactivity</b> | No particular risk of reaction with other materials under normal conditions of use. |
|------|-------------------|---|

|      |   |   |
|------|---|---|
| 10.2 | <b>Chemical stability</b>                 | TrikoLogic S is stable at room temperature in closed packages and under normal storage and handling conditions. |
| 10.3 | <b>Possibility of hazardous reactions</b> | No risk of dangerous reactions under normal use and storage conditions.   |
| 10.4 | <b>Conditions to avoid</b>                | No special conditions to avoid. Follow usual precautionary practices regarding chemicals.                       |
| 10.5 | <b>Incompatible materials</b>             | Strong acids.   |
| 10.6 | <b>Hazardous decomposition products</b>   | None known  |

## 11 SECTION 11 : TOXICOLOGICAL INFORMATION

|      |   |  |
|------|---|--|
| 11.1 | <b>Information on toxicological effects</b>   |  |
|      | a) acute toxicity;  | (a) Rat, LD50 >5.05 mg/kg body weight, practically non-toxic   |
|      | (b) skin corrosion/irritation;  | b) Rabbit, no irritation/corrosion was observed.   |
|      | (c) serious eye damage/irritation;  | (c) Rabbit, no eye damage was observed.  |
|      | (d) respiratory or skin sensitisation;  | (d) Guinea pig, buehler test: sensitizer.  |
|      | (e) germ cell mutagenicity;   | (e) Non-observed   |
|      | (f) carcinogenicity;  | (f) Non-observed   |
|      | (g) reproductive toxicity;  | (g) Non-observed   |
|      | (h) STOT-single exposure;   | (h) Non-observed   |
|      | (i) STOT-repeated exposure;   | (i) Non-observed   |
|      | (j) aspiration hazard   | (j) Non-observed   |
|      | Information on likely exposure pathways   | Ingestion: Slight irritation possible. No known significant effects or critical hazards.<br>Inhalation: Nasal irritation possible. No known significant effects or critical hazards.<br>Skin Exposure: No known significant effects or critical hazards.<br>Eye exposure: Slight irritation. No known significant effects or critical hazards. |
|      | Symptoms related to the physical, chemical and toxicological characteristics                | No known symptoms  |
|      | Delayed and immediate effects as well as chronic effects from short- and long-term exposure | No known effect  |
|      | Interactive effects   | No data  |
|      | Absence of specific data  | No data  |
|      | Mixtures  | No data  |
|      | Mixture versus substance information  | Mixture not containing substances subject to registration.<br>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 | <b>Toxicity</b>                      | Not applicable. The active ingredient is naturally occurring and practically non-toxic, non-allergenic and non-pathogenic to fish, non-target insects, non-target plants and freshwater invertebrates. |
| 12.2 | <b>Persistence and degradability</b> | Not applicable   |

|      |   |                |
|------|---|----------------|
| 12.3 | <b>Bioaccumulative potential</b>          | Not applicable |
|      | <b>Mobility in soil</b>                   | Not applicable |
| 12.4 |   |                |
| 12.5 | <b>Results of PBT and vPvB assessment</b> | Not applicable |
| 12.6 | <b>Other adverse effects</b>              | No data        |

### 13 SECTION 13 : DISPOSAL CONSIDERATIONS

|      |  |  |
|------|--|--|
| 13.1 | <b>Waste treatment methods</b>                     | Product: Product residues may be spread in the field or composted in small quantities.<br>Packaging: Empty packaging can be disposed of in household waste or in recycling bins. |
|      | 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 | <b>UN number</b>   | Non-hazardous transport                 |
| 14.2 | <b>UN proper shipping name</b>   | Non-hazardous transport                 |
| 14.3 | <b>Transport hazard class(es)</b>  | Non-hazardous transport                 |
|      | <b>ADR</b>   | Non-hazardous transport                 |
|      | <b>IMDG</b>  | Non-hazardous transport                 |
|      | <b>OACI/IATA</b>   | Non-hazardous transport                 |
| 14.4 | <b>Packing group</b>   | Non-hazardous transport                 |
| 14.5 | <b>Environmental hazards</b>   | Non-hazardous transport                 |
|      | <b>Special precautions for user</b>  | Non-hazardous transport                 |
| 14.6 |  |   |
| 14.7 | <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Non applicable/ Non-hazardous transport |

### 15 SECTION 15 :REGULATORY INFORMATION

|      |   |  |
|------|---|--|
| 15.1 | <b>Safety, health and environmental regulations/legislation specific for the substance or mixture</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   | To our knowledge, none.  |
| 15.2 | <b>Chemical safety assessment</b>   | Evaluation not carried out   |

### 16 SECTION 16 : OTHER INFORMATION

**Abbreviations and acronyms:**

16.1

ADR: European Agreement on the Transport of Dangerous Goods by Road  
CASE NUMBER: Chemical Abstract Service number  
EC50: Concentration that gives effect to 50% of the test population.  
EC NUMBER: Identification number in ESIS (European Archives of Existing Substances)  
CLP: EC Regulation 1272/2008  
DNEL: Level calculated without effect  
EmS: Emergency calendar  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
IATA DGR: International Air Transport Association Dangerous Goods Regulations  
IC50: Immobilizing concentration of 50% of the test population.  
IMDG: International Maritime Code for the Transport of Dangerous Goods  
IMO: International Maritime Organization  
INDEX NUMBER: Identification number VI Annex of the CLP  
LC50: Lethal concentration 50% lethal concentration  
LD50: Lethal dose 50%.  
LEP: Occupational exposure level  
PBT: Persistent, bioaccumulative and toxic according to REACH  
PEC: Predicted environmental concentration  
PEL: Predictable exposure level  
PNEC: Predictable concentration without effects  
REACH: EC Regulation 1907/2006  
RID: Regulations concerning the International Transport of Dangerous Goods by Rail  
TLV: Threshold limit value  
PLAFUND TLV: Concentration that must not be exceeded at any time during the working exposure  
TWA STEL: Short-term exposure limit  
TWA: Weighted Average Exposure Limit  
VOC: Volatile organic compound  
vPvB: Very persistent and bioaccumulative according to REACH

**Key literature references and sources for data**

16.2

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)  
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:**

Date of revision: 03/01/2022  
Previous version date: 02/03/2020  
Version :5



Modification: Section 1.3, Company name

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 contained herein is based on our knowledge of the product as of the date indicated (based on the safety data sheets for the active ingredients prepared by the manufacturer and other bibliographical data). It is given in good faith. In addition, the user's attention is drawn to the possible risks incurred 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.

It is the responsibility of our customers to observe the regulations in force.

The information describes the safety aspects of the product. It is not intended to guarantee specific properties.