



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

TrikoLogic

Version No. 4 Review date: 03/09/2019 Date: 01/12/2006

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

Product identifier

TRIKOLOGIC 1.1 A. Product name:

Relevant identified uses of

the substance or mixture TrikoLogic is a soil and plant auxiliary substance in compliance with European 1.2 and uses advised against

Regulation 2008/113/EC on organic farming, based on spores of the natural fungus Trichoderma harzianum T50. 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 Sarl (GHE)

Address Route de Lectoure, 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 15

services

Fire and rescue services 18

Police

1.4

17

EU Emergency call line 112

01 45 41 59 59 Toxicological Information

Centre ORFILA (INRS) 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

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

Mixtures
3.2 Name TrikoLogic

TrikoLogic does not contain any toxic chemicals.

Trikologic is a product based on spores of the natural fungus *Trichoderma harzianum*

T50, it improves plant health, resistance 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

Wash immediately with plenty of water, keeping the eyelids well apart.

Following skin contact Wash thoroughly with soap and water.

Following ingestion

Do not induce vomiting, seek medical attention immediately by showing the product

label.

Following inhalation Rinse nose with fresh water.

Self-protection of the first

aider

Depending on the first aid setting, 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 giving 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

Most important symptoms
4.2 and effects, both acute
and delayed

Potential acute health effects:

No known effect

Signs/symptoms of overexposure:

No specific data

Indication of any

No data available

4.3

immediate medical

attention and special

treatment needed

5 SECTION 5 : FIREFIGHTING MEASURES

Extinguishing media

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:

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In case of continued combustion, caused by improper handling, storage or use, the following extinguishing media can be used: carbon dioxide (CO2), foam, chemical powders, and in case of a large fire, also water spray.

Unsuitable 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 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.

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5.2

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 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.

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SECTION 6: ACCIDENTAL RELEASE MESURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure good ventilation.

Avoid generation of dust, provide adequate ventilation and respiratory protection (see section 8). Avoid contact with skin and eyes. Do not eat, drink or smoke. (See section

8)

For emergency responders

Responders will be equipped with personal protective equipment appropriate to the $% \left\{ 1\right\} =\left\{ 1\right\} =$

nature of the hazard. (See section 8).

Environmental precautions

None required.

6.2

Methods and material for containment and cleaning up

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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

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

sections

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.

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

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 impermeable pavement. Avoid contact with strong oxidizing agents.

Specific end use(s)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

Not applicable

8.1 Respect good industrial hygiene practices.

8.2 **Exposure controls**

Appropriate engineering

controls

Individual protection measures, such as personal protective equipment

No particular control

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.

Respiratory protection Ensure adequate ventilation, especially in enclosed areas.

Body protection Not required

Environmental exposure

controls

No protective measures.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES 9

9.1 Information on basic physical and chemical properties

Appearance Physical state: Solid (powder)

Color: White Greenish

Odour No odour

No pH when dry

pH in dispersion of 2g/l

water at 20°C

6-8

Melting point Not applicable Freezing point Not determined Initial boiling point and

boiling range Flash point

Not determined

Not determined Evaporation rate Not determined Flammability (solid, gas) Non inflammable Upper/lower flammability Not applicable or explosive limits

Vapour pressure Not determined Vapour density Not determined Relative density 0.7 g/cm 3 Solubility(ies) 20°C Entirely soluble

Partition coefficient: n-Not determined octanol/water

Auto-ignition temperature Up to 400 °C Decomposition 900°C temperature

Viscosity Not determined Explosive properties Non determined Oxidising properties Not determined Refraction index Not determined Rotary power Not determined

10	SECTION 10 : STABILITY AND REACTIVITY	
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10.1	Reactivity	No particular risk of reaction with other materials under normal conditions of use.
10.2	Chemical stability	TrikoLogic is stable at room temperature in closed packages and under normal storage and handling conditions at temperatures between 0 and 30°C.
	Possibility of hazardous	No risk of dangerous reactions under normal use and storage conditions.
10.3	reactions	
10.4	Conditions to avoid	Prolonged exposure to temperatures above 30°C.
		Storage in a damp place.
10.5	Incompatible materials	Any substance acting on organic materials, fungicides and acids.
10.6	Hazardous decomposition	None known
10.0	products	
11	SECTION 11 : TOXICOLOGICAL INFORMATION	
11.1	Information on toxicologica	al 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 Symptoms related to the physical, chemical and toxicological characteristics	>50g/kg Ingestion: No known significant effects or critical hazards. Inhalation: No known significant effects or critical hazards.
		Skin Exposure: No known significant effects or critical hazards.
	Delayed and immediate effects as well as chronic effects from short- and long-term exposure Interactive effects	Eye Exposure: Mild irritation. No known significant effects or critical hazards. No known effect No known effect
	Absence of specific data	No data
	Mixtures	No data
	Mixture versus substance	Mixture not containing substances subject to registration.
	information	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 : ECOLOGIC	CAL INFORMATION
12.1	Toxicity	Not applicable
12.2	Persistence and degradability	Not applicable
12.3	Bioaccumulative potential	Not applicable
12.4	Mobility in soil	Not applicable

12.5 Results of PBT and vPvB Not applicable assessment 12.6 Other adverse effects No data 13 **SECTION 13: DISPOSAL CONSIDERATIONS Waste treatment methods** Product: Remains of the product may be spread in the field or composted in small 13.1 quantities. Packaging: Empty packaging can be disposed of in household waste or in recycling Waste codes / waste Not applicable designations according to LoW: 14 **SECTION 14: TRANSPORT INFORMATION** Non-hazardous transport. In the event of an accident and product spillage, proceed as described in point 6 Non-hazardous transport **UN** number 14.1 **UN** proper shipping name Non-hazardous transport 14.2 Transport hazard class(es) Non-hazardous transport 14.3 **ADR** Non-hazardous transport Non-hazardous transport **IMDG** OACI/IATA Non-hazardous transport **Packing group** 14.4 **Environmental hazards** Non-hazardous transport 14.5 Special precautions for Non-hazardous transport 14.6 user Transport in bulk Non applicable/ Non-hazardous transport 14.7 according to Annex II of MARPOL73/78 and the **IBC Code** 15 **SECTION 15: REGULATORY INFORMATION** Safety, health and environmental regulations/legislation specific for the substance or mixture 15.1 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 **Chemical safety** Evaluation not carried out / not applicable assessment 16 **SECTION 16: OTHER INFORMATION Abbreviations and**

ADR: European Agreement on the Transport of Dangerous Goods by Road

acronyms:

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

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:

16.2

Revision date: 02/03/2020

Previous version date: 17/06/2019

Version: 4

Modification sections 5.3, 7.2, 7.3

16.1

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. It is given in good faith. Furthermore, 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.

This safety data sheet has been compiled by Terra Aquatica (GHE) on the basis of its current knowledge (safety data sheet of the active ingredients compiled by the manufacturer and other bibliographical data).

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.