

Safety data sheet

COMMISSION REGULATION (EU) 2020/878 of 18 June 2020

Creation date : 15/01/16
Revision date : 15/02/23
Version: 6



1 SECTION 1 Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

A. Trade name **TRIKOLOGIC**

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

Relevant identified uses of the substance or mixture

TrikoLogic is a soil and plant auxiliary substance in compliance with the European regulation 2008/113/EC on organic agriculture, based on spores of the natural fungus *Trichoderma harzianum* T50. It improves the health and the resistance of the plants and reinforces the development of the roots.

Uses advised against

Any use not specified in this section or in section 7.3

Use descriptor system (REACH)

No data available (not applicable: IK).

1.3 Details of the supplier of the safety data sheet

Company's name

Terra Aquatica

Address

4 Boulevard du Biopole, 32500 Fleurance

Phone number

+33 (0)5 62 06 08 30

E-mail address

info@terraaquatica.com

1.4 Emergency telephone number

Medical / rescue services

999

Fire and rescue

999

Police

101

EU emergency call line

112

ORFILA Toxicological Information Center (INRS)

(+) 33 01 45 41 59 59

Toxicological information center

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 (IK).

Additional information

None

Hazards for humans

None

Environmental risks

None

Physico-chemical hazards

None

Other hazards

2.2 Label elements

In accordance with Reg. 1272/2008/CLP and its adaptations

Danger pictogram

None

Hazard Word

None

Hazardous substances to be indicated on the label

None

Hazard statement

None

Warning statement

P102 Keep out of reach of children

Additional information on hazards (EU)

2.3 **Other hazards** None

3 SECTION 3 Composition/information on ingredients

3.1 **Substances** Non applicable

3.2 **Mixtures** TrikoLogic
TrikoLogic is a product based on spores of the natural fungus *Trichoderma harzianum* T50, it improves the health, the resistance of the plants and reinforces the development of the roots.

Additional data for identification of hazardous substances Non applicable

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

In case of eye contact Immediately flush eyes, including under the eyelids, with plenty of clean, clear water for at least 15 minutes.

In case of skin contact Rinse thoroughly with water for at least 15 minutes. Remove contaminated clothing. If the skin is red or puffy, or if an irritation persists, consult a doctor.

In case of eye contact Do not give anything by mouth to an unconscious or convulsing person. If a person has swallowed this product and is conscious, give small amounts of water to drink to dilute the product.

In case of inhalation Under normal conditions of use, inhalation is unlikely. If inhaled, move to fresh air and if necessary, assist breathing. In case of breathing difficulties, consult a doctor as soon as possible.

Protection of first aid providers 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. If your clothing is contaminated with a chemical substance during first aid administration, change them.

Other data 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** No known symptoms

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

5 SECTION 5 Firefighting measures

5.1 **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 for a surrounding fire Use dry chemical, carbon dioxide, water spray (mist) or foam.

Inappropriate extinguishing media In case of fire, do not use: Water jet

5.2	Special hazards arising from the substance or mixture	<p>Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.</p> <p>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 products.</p>
5.3	Advice for firefighters	<p>Quickly isolate the area by evacuating all persons from the area near the incident 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. Beware of water flows resulting from firefighting. Do not discharge fire extinguishing material into drains or sewers.</p>
	Protective actions to be taken when fighting fires	
	Appropriate protective equipment	<p>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.</p>
5.4	Other data	Non applicable
6	SECTION 6 Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures	
6.1.1	For non-emergency personnel	Ensure proper ventilation. Wear gloves and safety glasses to avoid stains or risk of splashing.
6.1.2	For emergency responders	Workers will be equipped with personal protective equipment appropriate to the possible hazards. (See section 8)
6.2	Environmental precautions	The product is biodegradable. No special measures required.
6.3	Methods and material for containment and cleaning up	
6.3.1	Containment method	Sewer coverage
6.3.2	Cleaning procedure	<p>Collect the spilled product by mechanical means 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.</p> <p>Collect the remains in an identified container: see point 13 for disposal.</p>
6.4	Reference to other sections	<p>Personal protective equipment: see section 8</p> <p>Withdrawal considerations: see section 13.</p> <p>See section 1 for emergency contact information.</p>
7	SECTION 7 Handling and storage	

7.1	Precautions for safe handling	<p>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. Do not eat, drink or smoke in work areas. Wash hands after each use.</p>
7.2	Conditions for safe storage, including any incompatibilities	<p>Provide adequate local ventilation or exhaust. Store in a cool, dry place. Keep container tightly closed. Temperature above 90°C may cause thermal decomposition creating totally benign by-products, organic matter, water, carbon. Ideally the storage temperature should be between 5 and 25°C. Close containers before and after each use to avoid sources of moisture or heat. Avoid contact with strong oxidizing agents.</p>
7.3	Specific end use(s)	<p>No specific end uses. Good practice: keep in closed and labeled containers. Close containers before and after each use to avoid sources of moisture or heat. Store in areas with impervious pavement.</p>

8 SECTION 8 Exposure controls/personal protection

8.1	Control parameters	<p>Not applicable Follow good industrial hygiene practices.</p>
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	No particular control
8.2.2	Individual protection measures, such as personal protective equipment	<p>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.</p>
a)	Eye/face protection	<p>It is recommended to wear protective glasses in accordance with the NF EN166 standard before any handling of products in order to avoid the risks of projection.</p>
b)	Skin protection	<p>Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product to avoid stains. Use suitable chemical-resistant protective gloves in accordance with NF EN374.</p>
c)	Respiratory protection	<p>Ensure adequate ventilation, especially in enclosed areas. Respiratory protection device not required.</p>
	Body protection	Not required
8.3	Environmental exposure controls	Not required. Biodegradable product

9 SECTION 9 Physical and chemical properties

9.1	Information on basic physical and chemical properties	
a)	Physical state	Solid, powder
b)	Colour	Greenish white
c)	Odour	No odor

d)	Melting point/freezing point	Not determined
e)	Boiling point or initial boiling point and boiling range	Not determined
f)	Flammability	Non inflammable
g)	Lower and upper explosion limit	Not applicable
h)	Flash point	Not determined
i)	Auto-ignition temperature	>400°C
j)	Decomposition temperature	>900°C
k)	pH	6~8 in dispersion of 2g/l water at 20°C
l)	Kinematic viscosity	Not determined
m)	Solubility	Entirely soluble
n)	Partition coefficient n-octanol/water (log value)	Not determined
o)	Vapour pressure	Not determined
p)	Density and/or relative density	0.7g/cm ³
q)	Relative vapour density	Not determined
r)	Particle characteristics	Not determined

9.2 Other information

9.2.1 Information with regard to physical hazard classes None

10 SECTION 10 Stability and reactivity

10.1	Reactivity	Stable. 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. Ideally the storage temperature should be between 5 and 25°C.
10.3	Possibility of hazardous reactions	No risk of dangerous reactions under normal use and storage conditions
10.4	Conditions to avoid	Prolonged exposure to temperatures >30°C; storage in a humid place.
10.5	Incompatible materials	Any substance acting on organic materials; fungicides and acids.
10.6	Hazardous decomposition products	None known

11 SECTION 11 Toxicological information

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

a)	Acute toxicity	50g>kg
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

11.1.5 Information on likely routes of exposure

Ingestion

Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.

Inhalation

Unlikely route of exposure under normal conditions of use. No known significant effects or critical hazards.

Skin exposure

No known hazards. Wash down with water.

Eye Exposure

Slight irritation possible. Wash down with water.

11.1.6	Symptoms related to the physical, chemical and toxicological characteristics	No known effect
11.1.7	Delayed and immediate effects as well as chronic effects from short and long-term exposure	No known effect
11.1.8	Interactive effects	No data available
11.1.9	Absence of specific data	No data available
11.1.10	Mixtures	No data available
11.1.11	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.
11.2	Information on other hazards	
11.2.1	Endocrine disrupting properties	No data available
12	SECTION 12 Ecological information	
12.1	Toxicity	No known risks. 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	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 assessment	Not applicable
12.6	Endocrine disrupting properties	Not applicable
12.7	Other adverse effects	No data available to date to the best of our knowledge
13	SECTION 13 Disposal considerations	
13.1	Waste treatment methods	Natural product: elimination without danger nor particular precautions. The remains can be spread in the fields or composted in small quantities. Disposal of the packaging: it is prohibited to discharge it into sewers or waterways. Residues and empty containers must be handled and disposed of in accordance with the relevant local/national legislation in force.
	Waste List Code	Not applicable
14	SECTION 14 Transport information	
14.1	UN number or ID number	Non-hazardous transport
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	
	ADR	Non-hazardous transport
	IMDG	
	OACI/IATA	
14.4	Packing group	Non-hazardous transport
14.5	Environmental hazards	Non-hazardous transport
14.6	Special precautions for user	Non-hazardous transport
14.7	Maritime transport in bulk according to IMO instruments	Non-hazardous transport
15	SECTION 15 Regulatory information	
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture	
	Reg. 1272/2008/EC	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/EC (REACH)	Not applicable
	Special risks	None to our knowledge.
15.2	Chemical safety assessment	Evaluation not carried out
16	SECTION 16 Other information	
16.1	Abbreviations and acronyms	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS NUMBER: Chemical Abstract Service number</p> <p>EC50: Concentration that gives effect to 50% of the test population.</p> <p>EC NUMBER: Identification number in ESIS (European archive of existing substances)</p> <p>CLP: Regulation EC 1272/2008</p> <p>DNEL: Calculated No Effect Level</p> <p>IATA DGR: International Air Transport Association Dangerous Goods Regulations</p> <p>IMDG: International Maritime Dangerous Goods Code</p> <p>IMO: International Maritime Organization</p> <p>LC50: Lethal concentration 50</p> <p>LD50: Lethal Dose 50%.</p> <p>OEL: Occupational Exposure Level</p> <p>PBT: Persistent, Bioaccumulative and Toxic according to REACH</p> <p>PEC: Predicted Environmental Concentration</p> <p>PEL: Predicted Exposure Level</p> <p>PNEC: Predicted No Effect Concentration</p> <p>REACH: Regulation EC 1907/2006</p> <p>vPvB: Very Persistent and Bioaccumulative according to REACH</p>
16.2	Bibliographical references	<p>Regulation (EC) 1907/2006 of the European Parliament (REACH)</p> <p>Regulation (EC) 1272/2008 of the European Parliament (CLP)</p> <p>Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)</p> <p>Regulation (EC) 453/2010 of the European Parliament</p> <p>Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)</p> <p>INRS - Toxicological Data Sheet</p> <p>Patty - Industrial hygiene and toxicology</p> <p>ECHA website</p>
16.3	Changes from the previous version	
	New version date	15/02/2023
	Previous version date	03/01/2022
	Version	6
	Modified elements	Update According to Regulation (EU) 2020/878
16.4	Note	The indicated mixture does not require an SDS according to REACH requirements. Sheet established for information purposes.

This safety data sheet complies with the requirements established by Commission Regulation (EU) 2020/878 of 18 June 2020. It does not exempt the user from knowing and applying all the documents governing his activity. The user is responsible for taking precautions related to the specific use of the product. All regulatory requirements listed are intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical instructions for use but does not replace them. This safety data sheet has been compiled by Terra Aquatica on the basis of its current knowledge (safety data sheets of the active ingredients compiled by the manufacturer and other literature). The information contained herein is based on our knowledge of the product at the date indicated. It is given in good faith. 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 information describes the safety aspects of the product. They are not intended to guarantee specific properties.

The recipient must ensure that he is not responsible for anything other than the mentioned texts. It is the responsibility of the users to observe the applicable regulations.