

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

Fulvic

Date : 20/06/2018

Version No. 4

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: **FULVIC**

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

Relevant identified uses of the substance or mixture:

Fulvic is a substance in aqueous solution, extracted from lignin of 100% vegetable origin and Leonardite which can be used in organic agriculture to improve the efficiency of fertilizers, increase yields and correct soil mineralization and salinity.

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

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	+33 01 45 41 59 59
---------------------------	---------------------------

Centre ORFILA (INRS)

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 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
------------	-------------------	----------------

3.2	Mixtures Name	This mixture does not contain substances that are hazardous to health or the environment in accordance with Regulation (EC) No 1272/2008, no occupational exposure limits assigned, not classified as PBT/VPVB.
------------	----------------------	---

Description	Fulvic is a light brown, odourless liquid.
--------------------	--

Other data for dangerous substances identification	Not 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. The general measures described below should be adopted:

4.1

Description of first aid measures

Following eye contact	Wash immediately with plenty of water, holding the eyelids wide apart, and consult a specialist if irritation or pain develops.
Following skin contact	Non-irritating. Wash thoroughly with soap and water. Remove contaminated clothing.
Following ingestion	Do not induce vomiting in an unconscious person. Rinse the mouth with water. Seek medical attention immediately by showing the product label.
Following inhalation	Under normal conditions of use, inhalation is unlikely. In case of exposure move the person to fresh air and if necessary, assist breathing. Consult a doctor if breathing difficulties appear/ persist.
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. If your clothing is

contaminated with a chemical substance during first aid administration, change it.

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 Most important symptoms and effects, both acute and delayed

Potential acute health effects:

No known effect

Signs/symptoms of overexposure:

No specific data

4.3 Indication of any immediate medical attention and special treatment needed

No specific data

5 SECTION 5 : FIREFIGHTING MEASURES

Extinguishing media

5.1

The product is not flammable or combustible. Low fire risk due to the flammability characteristics of the product under normal storage, handling and use conditions.

Suitable extinguishing media for a surrounding fire:

Use a dry chemical, carbon dioxide, water spray (Mist) or foam.

Inappropriate extinguishing media:

In case of fire, do not use: Water jet

Special hazards arising from the substance or mixture

5.2

Hazards due to the substance or mixture:

Given its flammability characteristics, the product does not present a specific risk of fire or explosion under normal storage, handling and use conditions.

Risk related to thermal decomposition products:

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 the products.

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

Additional provisions:

Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and Other Emergency Response.

5.4

Keep cans away from the fire if it can be done safely. Fire can cause smoke or toxic

gases. Firefighters must wear a mask with a closed-circuit breathing system and protective clothing and avoid contact with eyes or skin. Approach the fire with a braced wind. Be careful of water flows resulting from firefighting. Do not discharge fire-extinguishing material into drains or sewers.

6	SECTION 6 : ACCIDENTAL RELEASE MESURES	
6.1	Personal precautions, protective equipment and emergency procedures	
	For non-emergency personnel	<p>Ensure good ventilation.</p> <p>Wear gloves and safety glasses to avoid stains or risk of splashing.</p>
	For emergency responders	<p>Workers will be equipped with personal protective equipment appropriate to the nature of the hazard.</p> <p>(See section 8)</p>
6.2	Environmental precautions	None known.
	Methods and material for containment and cleaning up	
6.3		
	For containment:	Sewer coverage
	For cleaning up:	Manual evacuation of the product, wash with water.
6.4	Reference to other sections	<p>Collect the spilled product by mechanical means (absorbent cloths or sponges) 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>
7	SECTION 7 : HANDLING AND STORAGE	
	Precautions for safe handling	<p>Avoid the formation of suspended particles and the dispersion of the product in the air.</p> <p>Use adequate ventilation in areas where suspended particles develop.</p> <p>Keep away from flames and sparks. Do not smoke. Keep away from heat sources and other sources of fire.</p> <p>Do not eat, drink or smoke in work areas.</p> <p>Wash hands after each use.</p>
7.1		
	Conditions for safe storage, including any incompatibilities	<p>Ensure adequate local ventilation or extraction</p> <p>Store in a cool, dry place to avoid the risk of swelling and leakage of the product.</p> <p>Keep the container upright, tightly closed in a dry and well-ventilated place.</p> <p>Close containers before and after each use to avoid sources of moisture or heat.</p> <p>Store in areas with impermeable pavement.</p>
7.2		
	Specific end use(s)	<p>No specific end uses.</p>
7.3		<p>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.</p>
8	SECTION 8 : EXHIBITION CONTROLS/INDIVIDUAL PROTECTION	

8.1	Control parameters	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	Where necessary, 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	Not mandatory, but it is recommended to wear protective glasses in accordance with NF EN166 standard before handling any products to avoid the risk of splashing.
	Skin protection	Hands: Not required, but it is recommended to wear appropriate protective gloves in case of prolonged or repeated contact with the product. Use suitable chemical-resistant protective gloves in accordance with NF EN374.
	Respiratory protection	No protection required. In general, ensure adequate ventilation, especially in enclosed areas.
	Body protection	Protective clothing not required.
	Environmental exposure controls	Good practices: After contact with the product, wash stained body parts and clothing. No available data

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Physical state: liquid Color: light brown
Odour	No particular odour
pH	Between 7.5-8
Melting point	Not applicable
Freezing point	Not determined
Initial boiling point and boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Non inflammable
Upper/lower flammability or explosive limits	Not applicable
Vapour pressure	Not determined
Vapour density	Not determined
Relative density	1.22
Solubility(ies) 20°C	Entirely soluble
Partition coefficient: n-octanol/water	Not determined
Auto-ignition temperature	Not determined
Decomposition temperature	Not determined
Viscosity	Not determined
Explosive properties	Non explosive
Oxidising properties	Not determined

Refraction index	Not determined
Rotary power	Not determined

9.2 Other information
No other information

10 SECTION 10 : STABILITY AND REACTIVITY

10.1 Reactivity	Stable product. No particular risk of reaction with other materials under normal conditions of use.
10.2 Chemical stability	Fulvic is stable at room temperature in closed packages and under normal storage and handling conditions. No hazardous polymerization can be produced by any of its components
10.3 Possibility of hazardous reactions	No risk of dangerous reactions under normal use and storage conditions.
10.4 Conditions to avoid	No special conditions to avoid. Comply with standard industrial precautionary practices.
10.5 Incompatible materials	No specific data.
10.6 Hazardous decomposition products	None known

11 SECTION 11 : TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
a) acute toxicity;	No LD50 (ingestion, inhalation or skin exposure) determined. The product is practically non-toxic.
(b) skin corrosion/irritation;	
(c) serious eye damage/irritation;	The product does not contain substances that can be classified as carcinogenic or teratogenic.
(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	Ingestion: unlikely. No known toxicity Inhalation: not applicable Skin exposure: no known toxicity Eye exposure: possibility of mild irritation
Delayed and immediate effects as well as chronic effects from short- and long-term exposure	No known effect
Interactive effects	No known effect
Absence of specific data	No known effect
Mixtures	No known effect
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.
Other information	Comply with good industrial hygiene practices

12 SECTION 12 : ECOLOGICAL INFORMATION

12.1	Toxicity	The product is not classified as an environmentally hazardous substance
12.2	Persistence and degradability	No data available to date to the best of our knowledge
12.3	Bioaccumulative potential	No data available to date to the best of our knowledge
12.4	Mobility in soil	No data available to date to the best of our knowledge
12.5	Results of PBT and vPvB assessment	Product does not contain components classified as PBT and vPvB
12.6	Other adverse effects	No data available to date to the best of our knowledge

13 SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	Waste treatment methods	<p>Avoid spilling into sewers or waterways.</p> <p>Waste: Waste management is carried out without endangering human health and without harming the environment, including without creating a risk to water, air, soil, fauna and flora.</p> <p>Recycle or dispose of in accordance with current legislation, preferably by an approved collector or company.</p> <p>Disposal of the product/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.</p> <p>Follow the provisions of Directive 2008/98/EC on waste management.</p> <p>Recover the product as much as possible. Follow local legislation.</p>
	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	UN number	Non-hazardous transport
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	Non-hazardous transport
	ADR	Non-hazardous transport
	IMDG	Non-hazardous transport
	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	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Non applicable/ Non-hazardous transport

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 assessment	Evaluation not carried out
16	SECTION 16 : OTHER INFORMATION	
	Abbreviations and acronyms:	<p>ETA = Acute Toxicity Estimation</p> <p>CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures</p> <p>DNEL = Derived no-effect dose</p> <p>DMEL = Derived no-effect dose</p> <p>EUH = Specific hazard statement CLP</p> <p>CPSE = Predicted no-effect concentration</p> <p>RRN = REACH registration number</p> <p>PTB = Persistent, Toxic and Bioaccumulative</p> <p>tPtB = Very persistent and very bioaccumulative</p> <p>bw = Body mass</p>
16.1	Key literature references and sources for data	<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 Regulation (EC) 286/2011 of the European Parliament (II Atp. CLP)</p>
16.2		<p>The Merck index. Ed. 10 Handling and chemical safety</p> <p>Niosh - Register of toxic effects of chemical substances</p> <p>INRS - Toxicological Data Sheet</p> <p>Patty - Industrial hygiene and toxicology</p> <p>N.I. Sax - Dangerous properties of Industrial Materials - 7 Ed., 1989</p> <p>ECHA website</p> <p>EU REACH IUCLID5 CSR.</p> <p>National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda Registry of Toxic Effects of Chemical Substances.</p> <p>IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Règlement (CE) n ° 1272/2008 Annexe VI.</p>
16.3	Indication of changes:	<p>Revision date:03/01/2022</p> <p>Previous version : 07/20/2019</p> <p>Version: 3</p>
16.4	Classification and procedure used to derive the	<p>Modification: section 1.3 (company name)</p> <p>Non Applicable</p>

**classification for
mixtures according to
Regulation (EC)
1272/2008 [CLP]:
Note**

Product that can be used in organic farming in accordance with EEC regulation N°834/2007

This safety data sheet complies with the requirements established by Regulation 830/2015/EU. It does not in any way 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 intended simply to assist the recipient in fulfilling their responsibilities. This list should not be considered exhaustive. This sheet supplements the technical operating instructions but does not replace them. The information contained herein is based on our knowledge of the product on the date indicated. They are given in good faith. In addition, 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 addressee must ensure that he is not responsible for anything else according to texts other than those mentioned.

This safety data sheet has been prepared by Terra Aquatica on the basis of its current knowledge (manufacturer's active ingredient safety data sheet and other bibliographic data).

The information describes the safety aspects of the product. They are not intended to guarantee specific properties.

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