

# Fulvic

Date : 20/06/2018

Version No. 4

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

### Product identifier

1.1 **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 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 P102 Keep out of reach of children
2.3	<b>Other hazards</b>	
	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>	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.
	<b>Description</b>	Fulvic is a light brown, odourless liquid.
	<b>Other data for dangerous substances identification</b>	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	<b>Most important symptoms and effects, both acute and delayed</b> <b>Potential acute health effects:</b> No known effect <b>Signs/symptoms of overexposure:</b> No specific data
4.3	<b>Indication of any immediate medical attention and special treatment needed</b> No specific data

## 5 SECTION 5 : FIREFIGHTING MEASURES

5.1	<b>Extinguishing media</b> 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
5.2	<b>Special hazards arising from the substance or mixture</b> 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.
5.3	<b>Advice for firefighters</b> <u>Protective actions to be taken when fighting fires</u> 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.
5.4	<b>Other information</b> <u>Appropriate protective equipment</u> 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. Additional provisions: Respond in accordance with the Internal Emergency Plan and the Fact Sheets on Accident and Other Emergency Response. 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

Ensure good ventilation.

Wear gloves and safety glasses to avoid stains or risk of splashing.

For emergency responders

Workers will be equipped with personal protective equipment appropriate to the nature of the hazard.

(See section 8)

### 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.

### Reference to other sections

### 6.4

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.

## 7 SECTION 7 : HANDLING AND STORAGE

### Precautions for safe handling

### 7.1

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

### 7.2

Ensure adequate local ventilation or extraction

Store in a cool, dry place to avoid the risk of swelling and leakage of the product.

Keep the container upright, 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.

### Specific end use(s)

No specific end uses.

### 7.3

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

8.1	<b>Control parameters</b>	Not applicable
		Respect good industrial hygiene practices.
8.2	<b>Exposure controls</b>	
	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.  Good practices: After contact with the product, wash stained body parts and clothing.
	Environmental exposure controls	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	<b>Reactivity</b>	Stable product. No particular risk of reaction with other materials under normal conditions of use.
10.2	<b>Chemical stability</b>	Fulvic is stable at room temperature in closed packages and under normal storage and handling conditions.
10.3	<b>Possibility of hazardous reactions</b>	No hazardous polymerization can be produced by any of its components No risk of dangerous reactions under normal use and storage conditions.
10.4	<b>Conditions to avoid</b>	No special conditions to avoid. Comply with standard industrial precautionary practices.
10.5	<b>Incompatible materials</b>	No specific data.
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;	No LD50 (ingestion, inhalation or skin exposure) determined. The product is practically
	(b) skin corrosion/irritation;	non-toxic.
	(c) serious eye damage/irritation;	The product does not contain substances that can be classified as carcinogenic or
	(d) respiratory or skin sensitisation;	teratogenic.
	(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	<b>Toxicity</b>	The product is not classified as an environmentally hazardous substance
12.2	<b>Persistence and degradability</b>	No data available to date to the best of our knowledge
12.3	<b>Bioaccumulative potential</b>	No data available to date to the best of our knowledge
12.4	<b>Mobility in soil</b>	No data available to date to the best of our knowledge
12.5	<b>Results of PBT and vPvB assessment</b>	Product does not contain components classified as PBT and vPvB
12.6	<b>Other adverse effects</b>	No data available to date to the best of our knowledge

## 13 SECTION 13 : DISPOSAL CONSIDERATIONS

13.1	<b>Waste treatment methods</b>	<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	<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
14.4	<b>ADR IMDG OACI/IATA Packing group</b>	Non-hazardous transport Non-hazardous transport Non-hazardous transport
14.5	<b>Environmental hazards</b>	Non-hazardous transport
14.6	<b>Special precautions for user</b>	Non-hazardous transport
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

### 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:

ETA = Acute Toxicity Estimation  
CLP = Regulation 1272/2008/EC on classification, labelling and packaging of substances and mixtures  
DNEL = Derived no-effect dose  
DMEL = Derived no-effect dose  
EUH = Specific hazard statement CLP  
CPSE = Predicted no-effect concentration  
RRN = REACH registration number  
PTB = Persistent, Toxic and Bioaccumulative  
tPtB = Very persistent and very bioaccumulative

16.1

### Key literature references and sources for data

bw = Body mass  
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)

16.2

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  
EU REACH IUCLID5 CSR.  
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.  
IHS, 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada.Règlement (CE) n °

16.3

### Indication of changes:

1272/2008 Annexe VI.  
Revision date:03/01/2022  
Previous version : 07/20/2019  
Version: 3

16.4

### Classification and procedure used to derive the classification

Modification: section 1.3 (company name)  
Non Applicable



**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.