

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

Humic

Date : 01/12/2017

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:** **HUMIC**
B. REACH number **01-2119484861-29-003**

1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 SU 21 Consumer use: private households
 SU 1 Agriculture, forestry, fisheries-supplementary fertiliser
 Any other than those recommended

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)

Propriété dangereuses: Skin irritation 2, eye irritation 2
 Phrases H

H315-H319

Additional information :

Hazards for humans	Skin irritation/ severe eye damage
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



Signal word

Yes

Hazardous substances to be indicated on the label

None

Hazard statements H:

None

Precautionary statements P:

Danger

H-phrases: H315-H319

P-phrases: P264-P280(302+352) - P(305+351+338)- P(332+313)-P(337+313) - P362

For the full text of abbreviations, H and P phrases, see section 16.

2.3

Other hazards

Reg. 1272/2008/CLP

None

For the assessment of PBTs and vPvBs, see section 12.5.

3 SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

3.1

Substances

The product isn't a substance

N/A

3.2

**Mixtures
Name**

Humic

Description

Humic is an aqueous mixture of humic and fulvic acids and their salts.

**Other data for the identification
of dangerous substances**

1) Index No.

2) CAS No.

3) EC No.

4) Registration No.

Chemical name

Concentration (%Weight)

Classification according

CE 1272/2008 reglament

Humic Acids

10-25%

Skin irritation 2 (H315)

Potassium salts

Eye irritation 2 (H319)

1) Unallocated

2) 68514-28-3

3) 271-030-1

4) Unallocated

- For the full text of the H-phrases, see section 16

4

SECTION 4 : FIRST AID MEASURES

In general terms, 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, and consult a specialist.
Following skin contact	Wash thoroughly with soap and water. Remove contaminated clothing.
Following ingestion	Do not induce vomiting. Rinse the mouth with water. Seek medical attention immediately showing the product label.
Following inhalation	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

Eye Hazard: Causes severe eye irritation.
Risk of Skin Contact: Causes skin irritation, which may cause an allergic skin reaction.
Risk of ingestion: None known.
Inhalation hazard: None known.

Indication of any immediate medical attention and special treatment needed

See section 4.1.

4.3

5 SECTION 5 : FIREFIGHTING MEASURES

5.1 Extinguishing media

The product is not flammable. The extinguishing medium should be chosen according to the nature of the fire in the nearest environment.
Suitable extinguishing media :
In case of continued combustion caused by improper handling, storage or use, the following extinguishing media may be used: Alcohol-resistant foam, dry chemical, carbon dioxide, water spray.
Unsuitable extinguishing media :
In case of fire, do not use : Concentrated water jet, risk of fire propagation.

5.2 Special hazards arising from the substance or mixture

Hazardous combustible products: carbon dioxide, carbon monoxide, nitrogen oxides and soot.

5.3 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.

Appropriate protective equipment

The product is not combustible. In the event of fire in the surrounding area, appropriate extinguishing means and protective equipment for the other materials present (full protective clothing and personal respiratory equipment), complying with EN469 for a basic level of protection for chemical incidents, may be used. Firefighters must wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a positive pressure mask. Have a minimum of emergency facilities or intervention elements (fireproof blankets, first aid kit...) according to Directive 89/654/EC.

5.4 Other information

Additional provisions:

Act in accordance with the Internal Emergency Plan and the Information Sheets for Accident and Emergency Response. Eliminate all sources of ignition. In the event of fire, refrigerate containers and storage tanks of products likely to ignite and explode as a result of high temperatures. Avoid spillage of products used to extinguish 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.

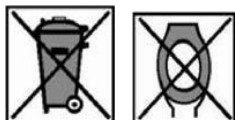
In case of accidental release of a large quantity, evacuate all personnel and allow access only to trained operators with appropriate personal protective equipment. (See Section 8) Ensure adequate ventilation of the workplace. Eliminate all possible sources of fire. Stop any accidental leakage immediately. In case of fire, start evacuation of the area, inform your management and immediately call the fire brigade.

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

Avoid contamination of sewage, surface and ground water. If this happens, inform the competent authorities.



Methods and material for containment and cleaning up

6.3

For containment:

Sewer coverage

For cleaning up:

Gather up the spilled product by mechanical means and remove the remains by water jets. Provide sufficient ventilation of the spillage area. Contaminated material must be disposed of in accordance with point 13.

6.4 Reference to other sections

Collect the remains in an identified container: see point 13 for disposal.
Personal protective equipment: see section 8.
Withdrawal Considerations: see section 13.

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

Store in accordance with local regulations. Store upright in original container, out of direct sunlight, in a dry, cool, well-ventilated place away from incompatible materials (see section 10). Keep container tightly closed and sealed until time of use. Keep container upright and tightly closed when not in use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Do not store in the presence of food products. Use an appropriate container to avoid contamination of the surrounding environment. Surround storage facilities with containment dikes to prevent soil and water pollution in case of spills.

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

8.1 Control parameters

The product does not include any substances covered by the PEL and NPK-P occupational exposure limits under Government Regulation No. 93/2012 Coll. in its current and unchanged wording.

8.2 Exposure controls

Appropriate engineering controls

Measures for the substance/mixture to avoid exposure during specific uses: In case of insufficient ventilation, wear suitable respiratory protection (mask/respirator with filter). Do not eat, smoke or drink in the area when handling the product. Always wash skin and apply an appropriate repair cream after work is completed. Wash contaminated clothing before reuse. The work area should be equipped with an eye wash and shower, hot water and solvent-free skin detergent.

Individual protection measures, such as personal protective equipment

Use individual protection 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 compliance with the provisions of the labour code.

Eye/face protection	It is necessary to wear protective glasses complying with standard NF EN166 before handling products.
Skin protection	Hands: Wear suitable protective gloves in case of prolonged or repeated contact with the product. Use suitable protective gloves resistant to chemical agents in accordance with NF EN374.
Respiratory protection	Wear protective clothing and footwear. Ensure adequate ventilation, especially in enclosed areas. Wear suitable respiratory protection (respirator or filtered respirator) in case of insufficient ventilation of the workplace or aerosol/mist formation.
Body protection	Wear appropriate protective clothing. After contact with the product, all parts of the body that have been in contact with the product must be washed.
Environmental exposure controls	Never allow the concentrated substance to enter surface / ground water sewage system.

9 SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Physical state: liquid Color: Brown
Odour	Characteristic smell
pH	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	23hPa (20°C)
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	Content of non-volatile components 100%. Water 20% Organic solvents 0%
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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	Humic is stable at room temperature in closed packages and under normal storage and handling conditions.
10.3	Possibility of hazardous reactions	No hazardous polymerization can be produced by any of its components 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;	Not applicable
	(b) skin corrosion/irritation;	Category 2
	(c) serious eye damage/irritation;	Category 2
	(d) respiratory or skin sensitisation;	Not applicable
	(e) germ cell mutagenicity;	Not applicable
	(f) carcinogenicity;	Not applicable
	(g) reproductive toxicity;	Not applicable
	(h) STOT-single exposure;	Not applicable
	(i) STOT-repeated exposure;	Not applicable.
	(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>Do not flush to sewers or waterways.</p> <p>Method of treatment of substances: The product must be disposed of in accordance with the Waste Act in its current and unchanged wording, and the accompanying legal provisions as other waste.</p> <p>Methods for treatment of contaminated containers : The container must be disposed of in accordance with the Waste Act in its current and unchanged wording, and the accompanying legal provisions.</p> <p>Other information: All wastes must be handed over to a person who is authorised to treat them. The waste must be labelled in accordance with the valid identifiers specified in the waste catalogue.</p>
	Waste codes / waste designations according to LoW:	<p>Recommended classification</p> <p>06 10 99 Wastes not otherwise specified</p> <p>Recommended classification</p> <p>15 01 02 Waste plastic (film)</p> <p>It is possible to recycle completely empty and cleaned containers.</p>

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	ADR/RID, IMDG, IATA-DGR labelling
14.2	UN proper shipping name	Non-hazardous transport
14.3	Transport hazard class(es)	Non-hazardous transport
14.4	ADR IMDG OACI/IATA Packing group	<p>Non-hazardous transport</p> <p>Non-hazardous transport</p> <p>Non-hazardous transport</p>
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

Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1

Act No. 350/2011 Coll. on Chemical Substances and Mixtures in its present wording.

Act No. 185/2001 Coll. in the Waste Act in its current wording and unchanged.

Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals in its current and unchanged wording.

Commission Regulation (EU) No 453/2010 amending Regulation of the European Parliament and of the Council (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). Regulation of the European Parliament and of the Council (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as currently drafted and unchanged.

EU Regulation No. 2015/830 amending Regulation of the European Parliament and of the Council (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals.

Government Regulation No. 93/2012 amending Government Regulation No. 361/2007 Coll., which stipulates the conditions for the protection of health at work in the wording of Government Regulation No. 68/2010 Coll.

Government Regulation No. 376/2001 Coll. on the assessment of hazardous waste in its current and unchanged wording.

15.2

Chemical safety assessment

Evaluation not carried out

16.1

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

bw = Body mass

16.2

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

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 ° 1272/2008 Annexe VI.

16.3 Indication of changes:

Date of revision: 03/01/2022

Previous version date: 25/02/2020

Version :4

Modification: Section 1.3, Company name

**16.4 Classification and procedure used to derive the 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.