

## SAFETY DATA SHEET

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

#### 1.1. Product identifier

Product name : ACRECIO

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

Use for agriculture (nutrients/ trace elements for plants)

#### 1.3. Details of the supplier of the safety data sheet

Registered company name : AGRONUTRITION SAS..

Address : Parc Activestre - 3 avenue de l'Orchidée.31390.CARBONNE.FRANCE.

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#### 1.4. Emergency telephone number : +0800 764 766 .

Association/Organisation : New Zealand National Poisons Centre : poisons@otago.ac.nz.

### SECTION 2 : HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

##### GHS compliant.

This mixture does not present a physical hazard. Refer to the recommendations regarding the other products present on the site.

This mixture does not present a health hazard with the exception of possible occupational exposure thresholds (see paragraphs 3 and 8).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

#### 2.2. Label elements

##### GHS compliant.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P270

Do not eat, drink or smoke when using this product.

Precautionary statements - Disposal :

P501

Dispose of contents/ container to an approved waste disposal plant.

#### 2.3. Other hazards

Replace the contents / container to an approved disposal center.

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**SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS****3.2. Mixtures****Composition :**

Identification	GHS	Note	%
CAS: 68514-28-3 EC: 271-030-1 REACH: 01-2119484861-29-XXXX HUMIC ACIDS, POTASSIUM SALTS	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2B, H320		50 <= x % < 100

**Information on ingredients :**

(Full text of H-phrases: see section 16)

**SECTION 4 : FIRST AID MEASURES**

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

**4.1. Description of first aid measures****In the event of exposure by inhalation :**

Remove the victim to fresh air. In case of respiratory problems, consult a doctor/medical service.

**In the event of splashes or contact with eyes :**

Flush immediately with plenty of water for 15 minutes keeping the eyelids open. If there is any pain, redness or visual impairment, consult an ophthalmologist.

**In the event of splashes or contact with skin :**

Wash with plenty of water and soap. In case of redness or irritation, consult a doctor/medical service.

**In the event of swallowing :**

Seek medical attention, showing the label.

**4.2. Most important symptoms and effects, both acute and delayed**

Symptoms/lesions after skin contact : skin irritation, redness.

Symptoms/lesions after eye contact : corrosion, irritation of eye tissues.

Symptoms/lesions after inhalation : No known effect.

Symptoms/lesions after ingestion : No known effect.

**4.3. Indication of any immediate medical attention and special treatment needed****Specific and immediate treatment :**

Symptomatic treatment.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

**5.1. Extinguishing media****Suitable methods of extinction**

In the event of a fire, use :

- sprayed water or water mist
- foam
- powder
- carbon dioxide (CO<sub>2</sub>)

The choice of the method depends on the other products present.

Do not use a strong water jet, danger of spreading of the product.

**5.2. Special hazards arising from the substance or mixture**

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- nitrogen oxide (NO)

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**5.3. Advice for firefighters**

Precautions against fire: like in case of all fires involving chemicals, wear appropriate protective equipment (chemical protective clothing, boots and gloves).

**SECTION 6 : ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Consult the safety measures listed under headings 7 and 8.

**For first aid worker**

First aid workers will be equipped with suitable personal protective equipment (See section 8).

**6.2. Environmental precautions**

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

**6.3. Methods and material for containment and cleaning up**

Clean preferably with a detergent, do not use solvents.

Accidental, ventilate the area and recovered by pumping the product for re-use (preferably) spill. If the operation of pumping is not suitable, cover the product dry sand or vermiculite. Mix and make its removal by scanning. Transfer to a suitable container (dumpster) properly labeled and proceed to disposal by a company authorized to waste collection.

**6.4. Reference to other sections**

See section 1 for information about emergency contact.

See section 13 for obtain additional information on waste treatment.

See section 8 for information on personal protection equipments.

See section 7 for information on safe handling.

**SECTION 7 : HANDLING AND STORAGE**

Requirements relating to storage premises apply to all facilities where the mixture is handled.

**7.1. Precautions for safe handling**

Always wash hands after handling.

**Fire prevention :**

Prevent access by unauthorised personnel.

**Recommended equipment and procedures :**

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

**Prohibited equipment and procedures :**

No smoking, eating or drinking in areas where the mixture is used.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep the product away from strong oxidizing agents and acids.

**Storage**

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

Storage temperature: 0-35°C

**Packaging**

Always keep in packaging made of an identical material to the original.

Replace the label in case of split of packaging.

**7.3. Specific end use(s)**

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

No data available.

**Derived no effect level (DNEL) or derived minimum effect level (DMEL):**

HUMIC ACIDS, POTASSIUM SALTS (CAS: 68514-28-3)

**Final use:**

Exposure method:

Potential health effects:

**Consumers.**

Ingestion.

Long term systemic effects.

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DNEL : 0.21 mg/kg body weight/day

**Predicted no effect concentration (PNEC):**

HUMIC ACIDS, POTASSIUM SALTS (CAS: 68514-28-3)

Environmental compartment: Fresh water.  
PNEC : 0.077 mg/kgEnvironmental compartment: Waste water treatment plant.  
PNEC : 10 mg/kg**8.2. Exposure controls****Personal protection measures, such as personal protective equipment**

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

**- Eye / face protection**

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles in accordance with standard EN166.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

Type of gloves recommended :

- Natural latex
- Nitrile rubber (butadiene-acrylonitrile copolymer rubber (NBR))
- PVC (polyvinyl chloride)
- Butyl Rubber (Isobutylene-isoprene copolymer)

**- Body protection**

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

**- Respiratory protection**

If the setting oeuvre the product and its application (spray atomization) is generating aerosol or fine particles liquids, it is recommended to wear a respirator, properly fitted.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

No data available.

**Physical state**Physical state : Fluid liquid.  
State : Soluble concentrate (SL)**Colour**

Color : Brown/black opaque

**Melting point**

Melting point/melting range : Not relevant.

**Freezing point**

Freezing point / Freezing range :

**Boiling point or initial boiling point and boiling range**

Boiling point/boiling range : Not relevant.

**Flash point**

Flash point interval : Not relevant.

**Auto-ignition temperature**

Self-ignition temperature : Not relevant.

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**Decomposition temperature**

Decomposition point/decomposition range : Not relevant.

**pH**

pH : 11.60 +/-0.6.

Strongly basic.

pH (aqueous solution) : 10.5 +/-0.6 (1%)

**Solubility**

Water solubility : Soluble.

**Vapour pressure**

Vapour pressure (50°C) : Not relevant.

**Density and/or relative density**Density : 1270 (+/-1.5%) g/dm<sup>3</sup>**9.2. Other information**

No additional information.

**9.2.1. Information with regard to physical hazard classes**

Mixture not classified on physical hazards

**Oxidising liquids**

Oxidising properties :

**9.2.2. Other safety characteristics**

No additional information.

**SECTION 10 : STABILITY AND REACTIVITY****10.1. Reactivity**

No dangerous reaction known under normal conditions of use and storage.

**10.2. Chemical stability**

This mixture is stable under the recommended handling and storage conditions in section 7.

**10.3. Possibility of hazardous reactions**

According to our knowledge, this product does not present any particular hazard under normal conditions of use and storage.

**10.4. Conditions to avoid**

Avoid :

- frost
- exposure to light
- humidity

**10.5. Incompatible materials**

Keep away from :

- strong acids
- strong oxidising agents

**10.6. Hazardous decomposition products**

The product does not decompose when used for its intended purpose.

**SECTION 11 : TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

No data available.

**11.1.1. Substances****Acute toxicity :**

HUMIC ACIDS, POTASSIUM SALTS (CAS: 68514-28-3)

Oral route : LD50 > 2000 mg/kg  
Species : Rat  
REACH Method B.1 tris (Acute Oral ToxicityAcute Toxic Class Method)Dermal route : LD50 > 2000 mg/kg  
Species : Rat  
REACH Method B.3 (Acute Toxicity (Dermal))

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**Skin corrosion/skin irritation :**

HUMIC ACIDS, POTASSIUM SALTS (CAS: 68514-28-3)

REACH Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

REACH Method B.4 (Acute Toxicity: Dermal Irritation / Corrosion)

**11.1.2. Mixture**

**Acute toxicity :**

Not classified. Based on the available data, the classification criteria are not met.

Species : Rat

LD50 > 2000 mg/kg

OECD Guideline 423 (Acute Oral toxicityAcute Toxic Class Method)

Species : Rat

LD50 > 2000 mg/kg

OECD Guideline 402 (Acute Dermal Toxicity)

**Skin corrosion/skin irritation :**

Skin irritation test - OCDE 404: No irritating.

Effect observed : Erythema score

Average score < 1.5

Duration of exposure : 48 h

Species : Rabbit

OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Tests have proven that the mixture is neither corrosive nor irritant despite the low/high pH.

**Serious damage to eyes/eye irritation :**

No observed effect.

No effect of eye irritation. (According to OECD Guideline No. 405)

Corneal haze :

Average score < 1

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Conjunctival redness :

Average score < 2

Species : Rabbit

OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Tests have proven that the mixture is not corrosive, does not produce serious ocular lesions or cause irritation despite the low/high pH.

**Respiratory or skin sensitisation :**

Not classified. Based on the available data, the classification criteria are not met.

**Germ cell mutagenicity :**

Not classified. Based on the available data, the classification criteria are not met.

**Carcinogenicity :**

Not classified. Based on the available data, the classification criteria are not met.

**Reproductive toxicant :**

Not classified. Based on the available data, the classification criteria are not met.

**Specific target organ systemic toxicity - single exposure :**

Not classified. Based on the available data, the classification criteria are not met.

**Specific target organ systemic toxicity - repeated exposure :**

Not classified. Based on the available data, the classification criteria are not met.

**Aspiration hazard :**

No substance in the mixture presents an aspiration hazard. The mixture is not classified.

**Endocrine disrupting properties**

The mixture does not contain substances identified as disrupting the endocrine system for human health.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.2. Mixtures**

NOEC = 900 mg/l

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Species : Daphnia magna  
Duration of exposure : 48 h  
Other guideline

Not classified. Based on the available data, the classification criteria are not met.

**12.2. Persistence and degradability**

**12.2.1. Substances**

HUMIC ACIDS, POTASSIUM SALTS (CAS: 68514-28-3)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

**12.2.2. Mixtures**

**12.3. Bioaccumulative potential**

There is no information on the bioaccumulation of the substances present.

**12.4. Mobility in soil**

No information is available on mobility in soil. It is therefore essential to avoid at all costs that it spills into sewers or waterways. Prevent it from entering the ground.

**12.5. Results of PBT and vPvB assessment**

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances identified as disrupting the endocrine system for the environment  $\geq 0.1\%$ .

**12.7. Other adverse effects**

No information is available on other adverse environmental effects.

**SECTION 13 : DISPOSAL CONSIDERATIONS**

The appropriate waste management of the mixture and/or its container must be determined in accordance with local regulations.

**13.1. Waste treatment methods**

Do not pour into drains or waterways.

**Waste :**

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, preferably via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

**Soiled packaging :**

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

**Local arrangements :**

Product must be disposed of in accordance with local and national regulations.

**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number**

-

**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

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**SECTION 15 : REGULATORY INFORMATION**

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

The following regulations have been used:

- Globally Harmonized System of Classification and Labelling of Chemicals (GHS), review no. 7 (2017)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out.

**SECTION 16 : OTHER INFORMATION**

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

**Wording of the phrases mentioned in section 3 :**

H315 Causes skin irritation.

H320 Causes eye irritation.

**Abbreviations :**

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.

NOEC : The concentration with no observed effect.

REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.

DNEL : Derived No-Effect Level

PNEC : Predicted No-Effect Concentration

STEL : Short-term exposure limit

TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.