

## SAFETY DATA SHEET

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

**1.1. Product identifier**

Product name : ACTI FULV

**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.

Telephone : +33 (0)5 61 97 85 00. Fax : .

fds-msds@agro-nutrition.fr

Distributed by: DeSangosse New Zealand Ltd, PO Box 113 Te Awamutu, 3841. Ph: 07 827 4856, Fax: 07 827 4806 infonz@desangosse.com

**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.**

Skin irritation, Category 2 (Skin Irrit. 2, H315).

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 an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

**2.2. Label elements**

**GHS compliant.**

Hazard pictograms :



GHS07

Signal Word :

WARNING

Product identifiers :

ACIDES HUMIQUES

Hazard statements :

H315

Causes skin irritation.

H319

Causes serious eye irritation.

Precautionary statements - General :

P102

Keep out of reach of children.

Precautionary statements - Prevention :

P280

Wear protective gloves/protective clothing/eye protection/face protection.

Precautionary statements - Response :

P302 + P352

IF ON SKIN: Wash with plenty of water/...

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P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

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.

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

This preparation does not contain substances hazardous to health and the environment in sufficient quantity to require reporting in this section.

Identification	GHS	Note	%
ACIDES HUMIQUES	GHS07 Wng Skin Irrit. 2, H315 Eye Irrit. 2B, H320		100%

(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.  
bring the packaging, label or Material Safety Data when you call the emergency number, a poison control center or doctor

**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 :**

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.  
If there is any redness, pain or visual impairment, consult an ophthalmologist.  
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.  
Reset contact lenses

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

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.  
Watch out for any remaining product between skin and clothing, watches, shoes, etc.  
If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.  
Wash with plenty of water and soap. In case of redness or irritation, consult a doctor/medical service.

**In the event of swallowing :**

Do not give the patient anything orally.  
In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.  
Seek medical attention immediately, showing the label.  
Give nothing by mouth. Do not induce vomiting.

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

Symptoms/lesions after inhalation: cough, respiratory tract irritation.  
Symptoms/lesions after skin contact: skin irritation, redness.  
Symptoms/lesions after eye contact: corrosion, irritation of the eye tissues.  
Symptoms/lesions after ingestion: abdominal pain, nausea.

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

No data available.

**SECTION 5 : FIREFIGHTING MEASURES**

Non-flammable.

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

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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 dioxide (CO<sub>2</sub>)

### **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 non first aid worker**

Avoid any contact with the skin and eyes.

If spill is large, evacuate all personnel and only allow intervention by trained operators and equipped with individual protection equipment appropriate (refer to Section 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**

If the ground is contaminated, once the product has been recovered by sponging with an inert and non-combustible absorbent material, wash the contaminated area in plenty of water.

Clean preferably with a detergent, do not use solvents.

### **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.

## **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.

Remove and wash contaminated clothing before re-using.

#### **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.

Avoid skin and eye contact with this mixture.

#### **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**

No data available.

#### **Storage**

Keep out of reach of children.

Keep away from food, drink and animal feedingstuffs.

Storage temperature: 0-35°C

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**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.

**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 with protective sides accordance with standard EN166.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

**- Hand protection**

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

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN374.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

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

Recommended properties :

- Impervious gloves in accordance with standard EN374

**- Body protection**

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034 to prevent skin contact.

Wear suitable protective clothing, in particular overalls and boots. These items must be kept in good condition and cleaned after use.

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**

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149.

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

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**Exposure controls linked to environmental protection**

Do not discharge into drains, surface waters or soil. Recover accidentally quantities of common ground products. Remove waste in accordance with local and national regulations.

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

Physical state :	Fluid liquid.
Color	Opaque Dark Brown
State	Soluble concentrate (SL)

**Important health, safety and environmental information**

pH (aqueous solution) :	11.40 +/-0.6 (10g/l)
pH :	12.80 14. Strongly basic.
Boiling point/boiling range :	Not relevant.
Flash point interval :	Not relevant.
Vapour pressure (50°C) :	Not relevant.
Density :	1230(+/-1.5%)
Water solubility :	Soluble.
Melting point/melting range :	Not relevant.
Self-ignition temperature :	Not relevant.
Decomposition point/decomposition range :	Not relevant.

**9.2. Other information**

No data available.

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

No data available.

**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

**10.5. Incompatible materials**

Keep away from :

- strong acids
- strong oxidising agents

**10.6. Hazardous decomposition products**

The thermal decomposition may release/form :

- carbon dioxide (CO<sub>2</sub>)

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

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.

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

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Oral route :

LD50 > 2000 mg/kg

Species : Rat

REACH Method B.1 tris (Acute Oral Toxicity Acute Toxic Class Method)

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Dermal route : LD50 > 2000 mg/kg  
Species : Rat  
REACH Method B.3 (Acute Toxicity (Dermal))

**Skin corrosion/skin irritation :**

N/A

ACIDES HUMIQUES

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

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

**11.1.2. Mixture**

**Acute toxicity :**

No data on the product itself is available.

**Skin corrosion/skin irritation :**

The irritant classification is based on the high/low pH value without irritation tests having been performed.

Slight erythema observed or no irritant effect.

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

The irritant classification is based on the high/low pH value without irritation tests having been performed.

Little or non irritating to the ocular tissue .

**Respiratory or skin sensitisation :**

No sensitizing effects known.

**Germ cell mutagenicity :**

No evidence of this effect was found.

**Carcinogenicity :**

No evidence of this effect was found

**Reproductive toxicant :**

No evidence of this effect was found.

**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and degradability**

**12.2.1. Substances**

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Biodegradability :

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

**12.2.2. Mixtures**

This product is considered readily biodegradable (slightly hazardous) and it is very soluble in water. Ensure that all flow not not resulted in the aquatic environment, or any sewer or drain. When using, do not spill the product beyond the cultivated areas (hedges, edges, ditches, streams).

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

No data available.

**12.6. Other adverse effects**

No data available.

**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.

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**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 :**

submit to an approved disposal.

**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**

-

**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. 5 (2013)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**15.2. Chemical safety assessment**

No data available.

**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.

The information contained in this MSDS was obtained from sources which we believe are reliable and corresponds to the current state of our knowledge and experience of the product and is not exhaustive. This applies to product which conforms to the specifications, unless otherwise stated. In case of formulations or mixtures, make sure that no new dangers can not be produced.

The product should not be used for other purposes than those specified under section 1. Attention of users is drawn to the possible risks incurred when a product is used for purposes other than those for which it was designed, without the prior written handling instructions.

This complements the technical sheets but does not replace plug. Is not exempt under any circumstances, the product user to comply with all laws, regulations and procedures relating to the product, safety, hygiene and protection human health and the environment.

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

H315 Causes skin irritation.

H320 Causes eye irritation.

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**Abbreviations :**

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.

GHS07 : Exclamation mark

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.