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## 1. SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

Commercial name: **Ultraferro**

Chemical name: Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, iron sodium salts.

EC No: 283-044-5

CAS No: 84539-55-9

**REACH Registration Number: 01-2119487279-21-0004**

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

Agriculture: Fertilizer.

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

TRADE CORPORATION INTERNATIONAL, S.A.U.  
c/ Alcalá, 498 – 2<sup>nd</sup> floor  
28027 – Madrid (Spain)  
Telephone: +34 91 327 32 00 Fax: +34 91 304 71 72  
E-mail: pgallego@tradecorp.sapec.pt

### 1.4. Emergency telephone number

National Institute of Toxicology: +34 91 562 04 20  
TRADECORP, S.A.U. emergency telephone: +34 91 327 32 00

## 2. SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification:

The product is not hazardous in accordance with European Regulation (EC) No. 1272/2008.  
The product is non-dangerous in accordance with European Directive 67/548/EEC.

**Environmental properties:** Not hazardous.

### 2.2. Label elements

**Hazard pictogram:** Not applicable.

**Signal word(s):** Not applicable.





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**Hazard statement(s):** Not applicable.

**Precautionary statement(s):** Not applicable.

### 2.3. Other hazards

No data available.

## 3. SECTION 3: Composition/information on ingredients

### 3.1. Identification of the substance

Name	CAS No.	EC No.	DSD classification	CLP classification
Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, iron sodium salts.	84539-55-9	283-044-5	-	-

## 4. SECTION 4: First aid measures

### 4.1. Description of first aid measures

**Inhalation:**

Remove the victim to fresh air, keep at rest and consult a physician.

**Skin contact:**

After contact with skin, wash immediately with plenty of soap and water. Remove contaminated clothing. If irritation develops, seek medical attention.

**Eye contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Call a physician immediately.

**Ingestion:**

Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Get medical attention immediately.

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

Inhalation: No adverse effects are expected.

Skin contact: No adverse effects are expected.

Eye contact: No adverse effects are expected.

Ingestion: No adverse effects are expected.

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

Specific notes for treatment: If symptoms persist, call a physician.





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## 5. SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: High volume water jet.

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

Fire hazard: the product is not flammable.

### 5.3. Advice for fire-fighters

Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus and personal protective equipment.

## 6. SECTION 6: Accidental release measures

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

Avoid contact with skin and eyes.

Do not breathe dust.

Wear personal protective equipment

Ensure adequate ventilation.

See also Section 8.

### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

After cleaning, flush away traces with water. Sweep up and shovel into suitable containers for disposal.

### 6.4. Reference to other sections

See Sections 8 and 13.

## 7. SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

See also Section 8.

General advice: Handle in accordance with good industrial hygiene and safety practice.





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Avoid contact with the skin, eyes and clothing.  
Avoid dust formation.  
Store the product in the original container.

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

Do not store near or with any of the incompatible materials listed in Section 10.  
Keep container tightly closed in a dry and well-ventilated place.  
Keep out of reach of unauthorized persons.  
Keep away from food, drink and animal feeding stuffs.

### 7.3. Specific end use(s)

Agriculture: Fertilizer.

## 8. SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### DNELs:

**DNELs for workers:** 0.8 mg/kg bw/day (dermal exposure)  
1.8 mg/m<sup>3</sup> (inhalation)

**DNELs for general population:** 0.417 mg/kg bw/day (dermal exposure)  
0.435 mg/m<sup>3</sup> (inhalation)  
0.125 mg/kg bw/day (oral exposure)

#### Predicted No Effect Concentration (PNEC):

**PNEC aqua (freshwater):** 2.4 mg/L

**PNEC aqua (marine water):** 0.24 mg/L

**PNEC aqua (intermittent releases):** 1.2 mg/L

**PNEC sediment (freshwater):** 1.9 mg/kg

**PNEC sediment (marine water):** 0.19 mg/kg

**PNEC soil:** 1.6 mg/kg

**PNEC sewage treatment plant:** 45 mg/L

**PNEC oral:** 1.1 mg/kg food





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## 8.2. Exposure controls

### 8.2.1 Proper technical controls

See also Section 7.  
Ensure adequate ventilation.  
Use only in area provided with appropriate exhaust ventilation.

### 8.2.2 Individual protective measures

**Respiratory protection:** In case of vapour formation use a respirator with filter model A. Ensure adequate ventilation.

**Hand protection:** Protective gloves complying with EN 374. Rubber gloves.

**Eye protection:** Safety glasses with side-shields conforming to EN166.

**Skin and body protection:** During handling operations, wear suitable protective clothing.

**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

### 8.2.3 Environmental exposure controls:

Do not flush into surface water or sanitary sewer system.

## 9. SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance:</b>	Solid
<b>Colour:</b>	Red-black
<b>Odour:</b>	No data available
<b>pH (1%):</b>	8.5
<b>Boiling point:</b>	Not applicable
<b>Melting point:</b>	> 500 °C
<b>Flash point:</b>	Not applicable
<b>Self-ignition temperature:</b>	331 °C at 1013.25 hPa
<b>Flammability:</b>	Non flammable
<b>Explosive properties:</b>	Non explosive
<b>Oxidizing properties:</b>	Non oxidising
<b>Evaporation rate:</b>	No data available
<b>Vapour pressure:</b>	< 1E-6 hPa at 25 °C
<b>Water solubility:</b>	60 g/L





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<b>Viscosity:</b>	Not applicable
<b>Density:</b>	0.5 g/cm <sup>3</sup>
<b>Partition coefficient n-octanol/water (log Pow):</b>	< -4.2 at 23 °C

## 10. SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3. Possibility of hazardous reactions

None under normal processing.

### 10.4. Conditions to avoid

Keep away from open flames, hot surfaces and sources of ignition.

### 10.5. Incompatible materials

- Strong oxidising agents

### 10.6. Hazardous decomposition products

In case of fire hazardous decomposition products may be produced, such as carbon oxides and nitrogen oxides (NO<sub>x</sub>).

## 11. SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

**Acute toxicity:** The product has not acute toxic effects:

- LD<sub>50</sub> (oral, rat): > 2000 mg/kg bw (according to OECD Guideline 401)
- LC<sub>50</sub> (inhalation, rat): > 4200 mg/m<sup>3</sup> air (according to OECD Guideline 403)
- LD<sub>50</sub> (dermal, rat): > 2000 mg/kg bw (according to OECD Guideline 402)

**Skin corrosion/irritation:** Tests based on the OECD Guideline 404 (rabbit) → Not irritating.





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**Eye corrosion/irritation:** Tests based on the OECD Guideline 405 (rabbit) → Not irritating.

**Skin sensitisation:** LLNA based on OECD Guideline 429 (mouse) → Not sensitising.

**Chronic toxicity:** No carcinogenic, mutagenic or teratogenic effects have been observed in animal testing.

## 12. SECTION 12: Ecological information

### 12.1. Toxicity

#### Aquatic toxicity:

- The product is not acutely toxic to fish (according to OECD Guideline 203 and EU method C.1):

<b>LC<sub>50</sub></b>	> 120 mg/L
<b>NOEC</b>	≥ 120 mg/L

- The product is not toxic to aquatic invertebrates (according to OECD Guideline 202 and EU method C.2):

<b>LC<sub>50</sub></b>	> 120 mg/L
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- The product is not toxic to aquatic algae (according to OECD Guideline 201 and EU method C.3):

<b>LC<sub>50</sub></b>	> 294 mg/L
<b>NOEC</b>	8.2 mg/L

- The product is not toxic to aquatic microorganisms (according to OECD Guideline 209 and EU method C.11):

<b>LC<sub>50</sub></b>	> 1000 mg/L
<b>NOEC</b>	450 mg/L

**Sediment toxicity:** No data available.

#### Terrestrial toxicity:

- The product is not toxic to birds:

<b>LC<sub>50</sub></b>	> 6000 mg/kg bw
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### 12.2. Persistence and degradability

The product is not readily biodegradable.

### 12.3. Bioaccumulative potential

The product does not bioaccumulate (Log Pow < -4.2).





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#### 12.4. Mobility in soil

No data is available on the product itself.

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

This product is not considered to be persistent, bioaccumulating nor toxic (PBT).

#### 12.6. Other adverse effects

No data available.

### 13. SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Dispose in accordance with local regulations.  
Waste codes should be assigned by the user based on the application for which the product was used.

### 14. SECTION 14: Transport information

#### ADR/RID:

Not classified as hazardous for transport within the transport regulations.

#### IMDG:

Not classified as hazardous for transport within the transport regulations.

#### ICAO/IATA:

Not classified as hazardous for transport within the transport regulations.

### 15. SECTION 15: Regulatory information

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

##### Classification:

The product is not hazardous in accordance with European Regulation (EC) No. 1272/2008.  
The product is non-dangerous in accordance with European Directive 67/548/EEC.







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**Regulations:**

- Directive 67/548/EEC on the approximation of laws, regulations and administrative provisions relating to the classification, packaging and labelling of dangerous substances.
- Directive 1999/45/EC concerning the approximation of the laws, regulations and administrative provisions of the Member States relating to the classification, packaging and labelling of dangerous preparations.
- Directive 91/689/EEC on hazardous waste.
- European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
- European Regulation (EC) No. 1272/2008, on classification, labelling and packaging of substances and mixtures.
- Commission Regulation (EU) No. 453/2010, amending Regulation (EC) No. 1907/2006 on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).

**15.2. Chemical safety assessment**

A Chemical Safety Assessment has been carried out for this product.

**16. SECTION 16: Other information**

**Revision of this safety data sheet:**

Revision number: 1.1

Added, deleted or revised information: Inclusion of REACH registration number assigned.

**Legend to abbreviations:**

DNEL: Derived No Effect Level

PNEC: Predicted No Effect Concentration

LC<sub>50</sub>: Lethal concentration 50%

DL<sub>50</sub>: Lethal dose 50%

NOEC: No observed effect concentration

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.





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**Key literature references and sources for data:**

- Institute for Health and Consumer Protection (European Commission): <http://ecb.jrc.ec.europa.eu/>
- Chemical Safety Report - TRADE CORPORATION INTERNATIONAL, S.A.U.

**List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements:**

Precautionary statements:

**P102:** Keep out of reach of children.

**P270:** Do not eat, drink or smoke when using this product.

The content and format of this SDS are in accordance with the Commission Directives 67/548/EEC and 1999/45/EC, and the European Regulations No. 1907/2006 and No. 1272/2008, and subsequent amendments.

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