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In conformity to Regulation (EU) 2015/830 - In conformity to Regulation (EC) 1907/2006

## **SECTION1. Identification of the substance/mixture and of the company/undertaking**

### **1.1. Product identifier**

Product code : GRADUAL 25 Fe  
Product line: BIOILSA

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

Fertilizer  
Sectors of use: Agriculture, forestry, fishery[SU1]  
Product category: Fertilizers

Uses advised against  
Do not use for purposes other than those listed

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

ILSA spa - Via Quinta Strada 28, 36071 Arzignano (VI)  
Tel. +39 0444 452020 Fax +39 0444 456864

Email: info@ilsagroup.com

### **1.4. Emergency telephone number**

ILSA S.p.A. +39 0444 452020

## **SECTION2. Hazards identification**

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

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:  
GHS07

Hazard Class and Category Code(s):  
Skin Irrit. 2, Eye Irrit. 2

Hazard statement Code(s):  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

If brought into contact with eyes, the product causes significant irritations which may last for more than 24 hours, if brought into contact with skin, it causes significant inflammation with erythema, scabs, or edema

**2.2. Label elements**

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
GHS07 - Warning

Hazard statement Code(s):  
H315 - Causes skin irritation.  
H319 - Causes serious eye irritation.

Supplemental Hazard statement Code(s):  
not applicable

Precautionary statements:

Prevention

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response

P337+P313 - If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

Substance/mixture does not meet the criteria for PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

**SECTION3. Composition/information on ingredients****3.1 Substances**

Irrilevant

**3.2 Mixtures**

Refer to paragraph 16 for full text of hazard statements

| Substance        | Concentration | Classification  | Index        | CAS       | EINECS    | REACH |
|------------------|---------------|---|--------------|-----------|-----------|-------|
| Iron(2+) sulfate | > 10 <= 20%   | Acute Tox. 4, H302;<br>Skin Irrit. 2, H315;<br>Eye Irrit. 2, H319 | 026-003-00-7 | 7720-78-7 | 231-753-5 |       |

**SECTION4. First aid measures****4.1. Description of first aid measures**

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

No data available.

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

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

**SECTION5. Firefighting measures**

**5.1. Extinguishing media**

Advised extinguishing agents:

Water spray, CO<sub>2</sub>, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

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

No data available.

**5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

**SECTION6. Accidental release measures**

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

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear mask, gloves and protective clothing.

6.1.2 For emergency responders:

Wear mask, gloves and protective clothing.

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

**6.2. Environmental precautions**

Contain spill

Inform the competent authorities.

Discharge the remains in compliance with the regulations

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

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

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Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

#### **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

### **SECTION 7. Handling and storage**

#### **7.1. Precautions for safe handling**

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

At work do not eat or drink.

See also paragraph 8 below.

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

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

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

Agriculture, forestry, fishery:

Fertilizers.

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

#### **8.1. Control parameters**

No data available.

#### **8.2. Exposure controls**

Appropriate engineering controls:

Agriculture, forestry, fishery:

Use in accordance with good agricultural practices.



Individual protection measures:

(a) Eye / face protection

When handling the pure product use safety glasses (spectacles cage) (EN 166).

(b) Skin protection

(i) Hand protection

When handling the pure product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3)

(ii) Other

When handling the pure product wear full protective skin clothing.

(c) Respiratory protection

Not needed for normal use.

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(d) Thermal hazards  
No hazard to report

Environmental exposure controls:  
Use according to good working practices to avoid pollution into the environment.

## SECTION9. Physical and chemical properties

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

| Physical and chemical properties             | Value          | Determination method                      |
|--|----------------|---|
| Appearance                                   | Pellet         |   |
| Odour  | Not determined |   |
| Odour threshold                              | Not determined |   |
| pH   | 4 - 5          | G.U. 19/09/2002 Nr 220 DM<br>17/06/2002 7 |
| Melting point/freezing point                 | Not determined |   |
| Initial boiling point and boiling range      | Not determined |   |
| Flash point                                  | Not determined |   |
| Evaporation rate                             | Not determined |   |
| Flammability (solid, gas)                    | Irrelevant     |   |
| Upper/lower flammability or explosive limits | Not determined |   |
| Vapour pressure                              | Not determined |   |
| Vapour density                               | Not determined |   |
| Relative density                             | Not determined |   |
| Solubility                                   | Not determined |   |
| Water solubility                             | Not determined |   |
| Partition coefficient: n-octanol/water       | Not determined |   |
| Auto-ignition temperature                    | Not determined |   |
| Decomposition temperature                    | Not determined |   |
| Viscosity                                    | Not determined |   |
| Explosive properties                         | Not determined |   |
| Oxidising properties                         | Not determined |   |

### 9.2. Other information

No data available.

## SECTION10. Stability and reactivity

### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

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### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Nothing to report

### 10.5. Incompatible materials

It can generate toxic gases to contact with oxidants mineral acids, elementary metals.  
It can ignite in contact with elementary metals, organic peroxides, organic water peroxides.

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = 7.716,7 mg/kg  
ATE(mix) dermal = no data available  
ATE(mix) inhal = no data available

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation: If brought into contact with the skin, the product causes significant inflammation with erythema, scabs, or edema.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met.
- (j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:  
Iron(2+) sulfate:  
LD50 (rat) Oral (mg/kg body weight) = 1389  
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 1389

Iron sulphate (II)

## SECTION 12. Ecological information

### 12.1. Toxicity

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

Substance/mixture does not meet the criteria for PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

**12.6. Other adverse effects**

No adverse effects

**SECTION 13. Disposal considerations**

**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies. Recover if possible. Operate according to local or national regulations

**SECTION 14. Transport information**

**14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

**14.2. UN proper shipping name**

None

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

None

**14.4. Packing group**

None

**14.5. Environmental hazards**

None

**14.6. Special precautions for user**

No data available.

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Don't intended safety peel-mell.

## SECTION 15. Regulatory information

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

Italy: D.Lgs. 3/2/1997 n.52; D.Lgs 14/3/2003 n.65; D.Lgs. 09/04/2008 n.81; D.P.R. 01/08/2011 n.151; D.M. 03/04/2007; D.Lgs. 26/06/2015 n.105; D.Lgs. 15/02/2016 n.39

UE: REG 2006/1907/CE (REACH); REG 2008/1272/CE (CLP); REG 2009/790/CE; DIR 2006/8/CE; DIR 2012/18/UE; DIR 2014/27/UE

REGULATION (EU) No 1357/2014 - waste:

HP4 - Irritant — skin irritation and eye damage

### 15.2. Chemical safety assessment

The supplier has made an assessment of chemical safety

## SECTION 16. Other information

### 16.1. Other information

Classification based on data of all mixture components

Regulation references:

Directive 67/548 29 ° adaptation

Directive 1999/45 / EC

Directive 2001/60 / EC

Regulation EC 1907/2006

Regulation EC 1272/2008

The information in this Safety Data Sheet has been provided in good faith and in the belief that they are accurate, based on our knowledge of the product dating from the time of publication. This does not imply the acceptance of any liability by the ILSA Spa Company for the consequences related to its use or misuse in any particular circumstance.

It does in no way exempt the user of the product from observing all the legislative, administrative and regulatory related to the product, hygiene and safety at work.

Document, established in accordance with the guidelines published by EFMA (European Fertilizer Manufacturers Association) and according to the Guide to the compilation of safety data sheets ECHA.

\*\*\* This sheet supersedes any previous edition.