

VALAGRO Safety Sheet
Date: 04/06/2015 Rev. 1.0
Product: Axilo Fe
Code: 11050
Print Date: 5 June 2015

SAFETY SHEET

AXILO Fe

1 – IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Chemical name:	Sodium feredetate
Trade name:	Axilo Fe
Synonyms:	Ethylenediaminetetraacetic acid, complex sodic ferric
CAS Registry number:	15708-41-5
EC N°:	239-802-2
Index No.:	N.A
Molecular weight:	421.1
Formula:	C ₁₀ H ₁₂ O ₈ N ₂ FeNa.3H ₂ O
1.2 Relevant identified uses of the substance and uses advised against	
Relevant identified uses of the substance:	Fertiliser
1.3 Details of the supplier of the safety data sheet:	
Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party; Produced and packed by: VALAGRO Spa Via Cagliari, 1 Zona Industriale 66041 Atessa (CH) ITALY Tel. (+39) 08728811 Fax (+39) 0872881382 www.valagro.com Distributed and guaranteed by: Valagro USA Inc. 19500 Hwy 249, suite 245 - Houston TX 77070 Tel (281) 664 8700 - Fax (281) 664 8701 Competent person responsible for the safety data sheet: regulatory@valagro.com	
1.4 Emergency telephone number:	Valagro USA Inc Tel (281) 664 8700 - Fax (281) 664 8701

2 – HAZARDS IDENTIFICATIONS

2.1 Classification of the substance:
Classification according to OSHA Hazard Communication Standard (29 CFR 1910.1200): The product is not classified as dangerous
Classification according to Regulation (EC) No 1272/2008: The product is not classified as dangerous

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<p>Most important adverse physicochemical, human health and environmental effects: see sections from 9 to 12.</p>
<p>2.2 Label Elements:</p> <p style="text-align: center;"> Hazard pictograms : none Signal word: none Hazard statements: none Precautionary statements: none </p>
<p>2.3 Other hazards:</p> <p style="text-align: center;">None</p>

3 – COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC N°	CAS NUMBER	%
Sodium ferredetate	239-802-2	015708-41-5	≥ 97

4 – FIRST AID MEASURES

<p>4.1 Description of first aid measures</p> <p>Routes of exposure:</p> <ul style="list-style-type: none"> - Inhalation: Well ventilate the area and go to the open space. - Skin: Take off all contaminated clothing. Rinse abundantly with water and soap. Seek medical advice in case of irritation. Wash clothes before reuse. - Eye: Rinse immediately and abundantly with water for at least 10 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if the irritation spreads out - Ingestion: Rinse mouth, give water to drink, induce vomiting. If the subject is unconscious do not induce vomiting. Seek medical advice <p>Advice: Who provides the first medical aide must use the individual protection equipment (latex gloves and safety glasses).</p>
<p>4.2 Most important symptoms and effects, both acute and delayed</p> <ul style="list-style-type: none"> - Inhalation: Possible irritation of respiratory tract - Skin: Possible irritation according to the contact time with the product - Eye: Possible irritation according to the contact time with the product - Ingestion: Possible irritation of mouth and digestive tract.
<p>4.3 Indication of any immediate medical attention and special treatment needed</p>

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In case of accident, seek immediately medical advice showing the safety data sheet

5 – FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, foam, carbon dioxide (CO₂),

Information on the appropriate extinguishing media:

Not relevant

Unsuitable extinguishing media:

None

Indications if extinguishing media are inappropriate for a particular situation involving the substance or mixture:

None

5.2 Special hazards arising from the substance:

In case of fire avoid to breath fumes , it may release toxic fumes containing Carbon oxides (COx) and Nitrogen oxides (NOx)

5.3 Advice for firefighters

In case of fire and in close proximity wear the protective clothes heat resistant and air respiratory equipment

6 – ACCIDENTAL RELEASE MEASURE

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel:

Keep away from the affected area people not involved in the emergency intervention
Alert the responsible of the internal emergency

For emergency responders:

Wear protective clothes giving a total skin protection, latex gloves and safety glasses.
See also section 8

6.2 Environmental precautions:

If possible store into a clean container either to reuse or disposal . Avoid waterway and discharging contamination, competent authority must be informed in case of waterway accidental contamination

6.3 Methods and material for containment and cleaning up:

Any release should be immediately cleaned up wearing protective clothes(suit, latex gloves and safety glasses).

If possible store into a clean container either to reuse or disposal. If possible absorb with the inert material

After store , wash the area with water and suitable materials

6.4 Reference to other sections:

referred to Sections 8 and 13

7 – HANDLING AND STORAGE

7.1. Precautions for safe handling

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Avoid powder inhalation Avoid direct contact with skin and eyes. See the following section 8 . Remove all protective clothing before access to the areas where you eat Always respect hygienic rules, do not drink neither eat in the working areas
7.2 Conditions for safe storage, including any incompatibilities Keep containers tightly closed in a well-ventilated place far from humidity and heat source.
7.3 Specific end use(s) None

8 – EXPOSURE CONTROL/ PERSONAL PROTECTION

8.1 Control parameters Occupational exposure limit values: TWA Iron soluble salts (Fe) : 1 mg/m ³ National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL): 1 mg/m ³ TWA
8.2 Exposure control Appropriate engineering controls: Operate in well-ventilated areas Individual protection measures, such as personal protective equipment: The personal protective equipment must be compliant to the regulation UNI –EN in force Eye / face protection: Wear safety glasses according to the standard EN 166, don't use contact lenses. Skin protection: - Hand protection: Wear latex gloves according to the standard EN 374. - Other: Wear total skin protection clothes Respiratory protection: Use anti-powder mask with P2 filters in case of dust making. The powder exposition limit must be respected - Environmental exposure controls: Keep the product concentration under the exposure limits established by the law

9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Appearance (25° C):	Yellow crystals	
Odour:	Odourless	
Odour threshold:	N.A.	
pH:	N.A.	
Melting point/freezing point:	N.A.	
Initial boiling point and boiling range:	N.A.	

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Flash point:	N.A.	
Evaporation rate:	N.A.	
Flammability (solid, gas):	N.A.	
Upper/lower flammability or explosive limits:	N.A.	
Vapour pressure:	N.A.	
Vapour density:	N.A.	
Apparent density:	1.1	
Solubility:		
- Solubility in water:	90	g/l at 25°C
- Lipid solubility:	N.A.	g/l at 25°C
Partition coefficient: n-octanol/water	N.A.	
Auto-ignition temperature:	N.A.	
Decomposition temperature:	N.A.	
Viscosity:	N.A.	
Explosive properties:	N.A.	
Oxidising properties:	N.A.	
9.2 Other information		
pH water solution 1%	4.5	at 25° C
Conductivity	0.172	(1‰) mS/cm 18 °C

10 – STABILITY AND REACTIVITY

10.1 Reactivity:	Stable under normal conditions of use and storage
10.2 Chemical stability:	Stable under normal conditions of use and storage
10.3 Possibility of hazardous reactions:	None
10.4 Conditions to avoid	Heating of the product at high temperatures
10.5 Incompatible materials:	Strong acids and bases, oxidizing and reducing agents.
10.6 Hazardous decomposition products:	In case of fire may release toxic fumes (NOx, COx)

11 – TOXICOLOGICAL INFORMATION

Toxicological (health) effects caused by exposure to the substance: see also sections 2 and 4.

11.1 Information on toxicological effects
- acute toxicity: not available data
- skin corrosion/irritation: not available data

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- **serious eye damage/irritation:**
not available data
- **respiratory or skin sensitisation:**
not available data
- **germ cell mutagenicity:**
not available data
- **Carcinogenicity:**
not available data
- **reproductive toxicity:**
not available data
- **STOT-single exposure:**
not available data
- **STOT-repeated exposure**
not available data
- **aspiration hazard:**
not available data

Information on likely routes of exposure:

Inhalation: can be irritant for nose and respiratory system

Skin: can be irritant for skin

Eye: can be irritant for eyes

Ingestion: can be irritant for mouth and digestive tract

Other informations:

N.A.

12 – ECOLOGICAL INFORMATION

Use according to good working rules, avoid to dispose of the product in the environment (see sections 6, 7, 13,14 e 15).

12.1 Toxicity
N.A.
12.2 Persistence and degradability
N.A.
12.3 Bioaccumulative potential
N.A.
12.4 Mobility in soil
N.A.
12.5 Results of PBT and vPvB assessment
N.A.
12.6 Other adverse effects
N.A.

13 – DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

- Product: Recover if possible. Operate according to local and national laws

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Contact local authorities who will provide guidance regarding the disposal of special waste.
- Packaging: Dispose according to current regulations

14 – TRANSPORT INFORMATION

Not dangerous product within the meaning of transport regulations

15 – REGULATORY INFORMATION

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

Hazard Communication Standard (HCS) Haz Com 2012
OSHA, 29 CFR 1910.1200(g) and Appendix D. United Nations Globally Harmonized System of Classification and Labelling of Chemicals (GHS), third revised edition, United Nations, 2009. Hazard Communication Standard
United Nations Recommendations on the Transport of Dangerous Goods.
OSHA Permissible Exposure Limit
[29 CFR 1926.55 Appendix A](#)
American Conference of Governmental Industrial Hygienists (ACGIH) Threshold Limit Value (TLV)
National Institute for Occupational Safety and Health (NIOSH) Recommended Exposure Limit (REL)
Chemical Abstracts Service (CAS) Registry Number

15.2. Chemical safety assessment

N.A.

16 – OTHER INFORMATION

Date of preparation of the SDS: revision 2.0, date 4 June 2015.
This document was prepared by a competent person who has received appropriate training.
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.
It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This SDS cancels and replaces any preceding release.

N.A. no data available
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS: Chemical Abstracts Service (division of the American Chemical Society).
CLP: Classification, Labeling, Packaging.
DNEL: Derived No Effect Level.
EINECS: European Inventory of Existing Commercial Chemical Substances.
GefStoffVO: Ordinance on Hazardous Substances, Germany.
GHS: Globally Harmonized System of Classification and Labeling of Chemicals.
IATA: International Air Transport Association.
IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

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ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
LTE:	Long-term exposure.
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STE:	Short-term exposure.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWATLV:	Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
WGK:	German Water Hazard Class.