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COMPANY WITH ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFIED BY DNV ===ISO 14001====









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## SAFETY DATA SHEET

(According to Regulation EC No 453/2010)

## 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier		
Chemical name:	IRON EDDHA	
Trade name:	Axilo Fe	
Synonyms:	Ethylenediaminetetraacetic acid, complex sodic ferric	
CAS Registry number:	015708-41-5	
EC N°:	239-802-2	
Index No.:	N.A	
Registration number:	N.A.	
Molecular weight:	421.1	
Formula:	C10H12O8N2FeNa.3H2O	
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:		
Company:	VALAGRO Spa	
	Zona Industriale	
	66041 ATESSA (CHIETI) ITALY	
	Tel. (+39) 0872 8811	
	Fax (+39) 0872 881382	
Competent person responsible for the safety	E-mail: regulatory@valagro.com	
data sheet:		
1.4 Emergency telephone number:	Tel. (+39) 02 66101029 (Centro Antiveleni Ospedale	
	Niguarda Milano)	
	Tel. (+39) 0872 8811 (Valagro Spa _ from Monday to	
	Friday from 8.30 to 13:00 and from 14:00 to 17.30 h)	

## 2 - HAZARDS IDENTIFICATIONS

21	Cla	ccifics	tion	of the	substance:
4.1	C.I.d.	SSIIICa	luvii	or ure	Substance:

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

Not classified as dangerous

## Classification according to Directive 67/548/EEC:

Not classified as dangerous

## Most important adverse physicochemical, human health and environmental effects:

see sections from 9 to 12.

#### 2.2 Label Elements:

Hazard pictograms: none

Signal word: none

Hazard statements: none

Precautionary statements: none

## 2.3 Other hazards:

None



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## 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC N°	CAS NUMBER	%
IRON EDTA	239-802-2	015708-41-5	99

## 4 - FIRST AID MEASURES

## 4.1 Description of first aid measures

#### Routes of exposure:

- 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

#### Advice:

Who provides the first medical aide must use the individual protection equipment (latex gloves and safety glasses).

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

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.

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

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

## 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 (NOx)

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#### 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

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:

#### **ACGIH**

Substance name	TLW-TWA (ppm)	TLV-STEL (ppm)	note	critical effects
Iron soluble salts	1	N.D.	N.D.	Irritation

Biological limit values: N.A.

**DNEL:** N.A. **PNEC:** N.A.

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## Recommended monitoring procedures: N.A.

## 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			
Appearence (25° C):	Yellow crystals		
Odour:	Odourless		
Odour threshold:	N.A.		
pH:	N.A.	at 25 ° C	
Melting point/freezing point:	N.A.		
Initial boiling point and boiling	N.A.		
range:			
Flash point:	N.A		
Evaporation rate:	N.A.		
Flammability (solid, gas):	N.A.		
Upper/lower flammability or	>40		
explosive limits:			
Vapour pressure:	N.A.		
Vapour density:	N.A.		
Relative density:	1.1		
Solubility:			
- Solubility in water:	90	g/l at 25°C	
- Lipid solubility:		g/l at 25°C	
Partition coefficient:	N.A.		
n-octanol/water			
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
Viscosity:	N.A.	cps	
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	



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## 10 - STABILITY AND REACTIVITY

10.1 Reactivity:

Reacts with strong oxidizing agents

10.2 Chemical stability:

Stable at the usual work condition

10.3 Possibility of hazardous reactions:

Contact with strong oxidizing agents induces violent reactions

10.4 Conditions to avoid:

Heating of the product at high temperatures

**10.5** Incompatible materials:

Strong oxidizing agents

10.6 Hazardous decomposition products:

In case of fire may release toxic fumes (NOx, SOx)

## 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

- 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 Eve: can be irritant for eves

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

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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

Recover the product, if possible, or send to the incineration and disposal system.

Avoid waterway and discharging contamination.

Follow the local and national disposition in force

## 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

Council Directive 67/548/EEC (Classification, packaging and labelling of dangerous substances) and subsequent amendments. Council Directive 1999/45/EC (Classification, packaging and labelling of dangerous preparations) and subsequent amendments. Regulation (EC) nr 1272/2008 (CLP). Commission Directive 98/24/EC (Protection of the health and safety of workers from the risk related to chemical agent).

Commission Directive 2000/39/EC ocupational exposure limit values).

Regulation (EC) No 1907/2006 (REACH).

## 15.2. Chemical safety assessment

N.A.

#### 16 - OTHER INFORMATION

This MSDS was revised to get it compliant to regulation 453/2010 and cancels and replaces any preceding release. 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.

#### Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold ACGIH - Threshold Limit Values - 2004 edition ESIS

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## Acronyms used in the safety data sheet:

**ADN:** Accord europeen relative au transport international des marchandises dangereuses par voies de navigation interieures

ADR: Accord europeen relative au transport International des marchandises dangereuses par route

**ACGIH:** American Conference of Governmental Industrial Hygienist

**LC50:** Lethal concentration 50(Lethal Concentration for the 50% of the individuals)

CLP: Classification, Labelling and Packaging

**CSR:** Chemical Safety Report

**LD 50:** Lethal Dose 50 ((Lethal dose for the 50% of the individuals)

**DNEL**: Derived No effect level

**IARC:** International Agency for Research on Cancer **IATA:** International air transport association **ICAO:** International Civil aviation Organization

Codice IMDG: International Maritime Dangerous Goods code

**PBT:** Persistent, bioaccumulative and toxic **PNEC:** Predicted No Effect Concentration

RID: Reglement concernent le transport International ferroviarie des marchandises dangereuses

**STEL:** short term exposure limit **TLV:** threshold limit value **TWA:** Time Weighted Average

**UE: European Union (**Unione europea) **vPvB: Very** persistent very bioaccumulative

N.A.: not available