

Safety data sheet
According to 1907/2006/EC, Article 31, amended by
Regulation (EU) No. 2015/830

Printing date 20.12.2016

Revision no. 2

Revision: 20.12.2016

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

- **1.1 Product identifier**
- **Trade name:** *Fe-EDDHA 6 % (Pioner Jernchelat)*
- **Article number:** 160445
- **CAS Number:**
84539-55-9
- **EC number:**
283-044-5
- **Registration number** 01-2119487279-21-XXXX
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** *As fertiliser in agriculture.*
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
AZELIS
Posthofbrug 12, box 6
B-2600 Antwerp
Belgium
- **For further information or SDS requests please contact:**
Azelis
E mail: sds@azelis.com
- **1.4 Emergency telephone number:**
MULTI LINGUAL EMERGENCY NUMBER (Carechem 24*7)
EUROPE: + 33 (0) 1 44 73 10 02
USA: +1 866 928 0789 (Toll free)
CHINA: + 86 1051003039
INDIA: +65 31581198

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The substance is not classified according to the CLP regulation.

- **2.2 Label elements**
- **Labelling according to Regulation (EC) No 1272/2008** *Void*
- **Hazard pictograms** *Void*
- **Signal word** *Void*
- **Hazard statements** *Void*
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*

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SECTION 3: Composition/information on ingredients

- **3.1 Chemical characterisation: Substances**
- **CAS No. Description**
84539-55-9 Acetic acid, oxo-, sodium salt, reaction products with ethylenediamine and phenol, iron sodium salts
- **Identification number(s)**
- **EC number:** 283-044-5

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Seek medical treatment in case of complaints.
- **After inhalation:**
Take affected persons into the open air and position comfortably.
Seek medical treatment.
- **After skin contact:** In case of skin contact, immediately wash with soap and plenty of water.
- **After eye contact:**
Promptly wash eyes with plenty of water while lifting the eye lids.
At least 15 minutes
Remove contact lenses.
Seek immediate medical advice.
- **After swallowing:**
Wash out mouth with water.
Give water to drink.
- **4.2 Most important symptoms and effects, both acute and delayed**
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**
Water
Dry powder.
Carbon dioxide
Foam
- **5.2 Special hazards arising from the substance or mixture**
No further relevant information available.

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- **5.3 Advice for firefighters**
- **Protective equipment:**
Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Wear protective equipment. Keep unprotected persons away.
Ensure adequate ventilation
Avoid contact with skin and eyes.
Avoid formation of dust.
Avoid breathing dust.
Do not eat, drink or smoke while working.
- **6.2 Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
Spills should be swept up into sealed containers. Avoid producing dust.
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Usual safety precautions should be observed to ensure safe handling.
Ensure good ventilation/exhaustion at the workplace.
Avoid contact with eyes and skin.
Prevent formation of dust.
Avoid breathing dust.
Wash hands before breaks and at the end of work.
Do not eat, drink or smoke while working.
- **Information about fire - and explosion protection:** Normal measures for preventive fire protection.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Store in dry conditions.
Store in a well-ventilated place.
Store only in the original receptacle.
- **Information about storage in one common storage facility:**
Keep away from foodstuffs, beverages and feed.
Store away from oxidizing materials
- **Further information about storage conditions:** Keep container tightly sealed.

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- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs**
DNEL for workers:
0,8 mg/kg of body weight / day (skin exposition)
1,8 mg/m³ (inhalation)
DNEL for population in general:
0,417 mg/kg of body weight / day (skin exposition)
0,435 mg/m³ (inhalation)
0,125 mg/kg of body weight / day (oral exposition)
- **PNECs**
Predicted non effect concentration (PNEC):
PNEC water (water): 2,40 mg/L
PNEC water (sea water): 0,24 mg/L
PNEC water (intermittent emissions): 1,20 mg/L
PNEC sediment (water): 1,90 mg/kg
PNEC sediment (sea water): 0,19 mg/kg
PNEC soil: 1,60 mg/kg
PNEC residual water treatment plant: 45,00 mg/L.
PNEC oral: 1,1 mg/kg of food
- **Additional information:** Use engineering controls to reduce air contamination.
- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
The usual precautionary measures are to be adhered to when handling chemicals.
Local exhaust ventilation required.
Avoid contact with the eyes and skin.
Prevent formation of dust.
Do not inhale dust.
Do not eat, drink, smoke while working.
Wash hands before breaks and at the end of work.

Eyewash and safety shower facilities should be available when handling this product.
- **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.

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Use specified dust masks.

Filter A.

· **Protection of hands:**



Protective gloves.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

· **Material of gloves**

Rubber gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:**



Safety glasses

· **Body protection:** Wear suitable protective clothing.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

Form: Microgranulated powder

free of refined
black – reddish

Colour:

· **Odour:** Little intense

Characteristic

· **Odour threshold:**

Not determined.

· **pH-value:**

7.5 - 9.5

· **Change in condition**

Melting point/freezing point: > 200 °C

Initial boiling point and boiling range: It decomposes before melting.

· **Flash point:**

No data.

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· Flammability (solid, gas):	Product is not flammable.
· Ignition temperature:	
· Decomposition temperature:	Undetermined.
· Auto-ignition temperature:	331 °C @ 1013.25 hPa
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
· Vapour pressure at 25 °C:	< 1E-6 hPa
· Density:	450 -650 kg/m ³
· Relative density	Not determined.
· Vapour density	Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with water:	120 g/l
· Partition coefficient: n-octanol/water at 23 °C:	< - 4.2
· Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** No further relevant information available.
- **10.2 Chemical stability** Stable under normal temperatures and pressures.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** Keep away from heat, flame, sparks and other ignition sources.
- **10.5 Incompatible materials:** Oxidizing agents.
- **10.6 Hazardous decomposition products:**
Carbon monoxide (CO) and carbon dioxide (CO₂)
Nitrogen oxides (NO_x)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

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· LD/LC50 values relevant for classification:

Oral	LD50	> 2000 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)
Inhalative	LC50	> 4200 mg/m3 (rat)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No specific health warnings noted.
- **Serious eye damage/irritation** No specific health warnings noted.
- **ingestion:** No specific health warnings noted.
- **inhalation:** No specific health warnings noted.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

· Aquatic toxicity:

LC50	> 294 mg/l (algae)
	> 120 mg/l (Aquatic invertebrates)
	> 120 mg/l (fish)
	> 1000 mg/l (microorganisms)
NOEC	8.2 mg/l (algae)
	120 mg/l (fish)
	450 mg/l (microorganisms)

- **12.2 Persistence and degradability** The product is biodegradable.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Avoid transfer into the environment.
 Water hazard class 1 (German Regulation): slightly hazardous for water
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

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SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** *Dispose of in accordance with Local Authority requirements.*
- **Uncleaned packaging:**
- **Recommendation:** *Disposal must be made according to official regulations.*

SECTION 14: Transport information

· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class	Void
· 14.4 Packing group · ADR, IMDG, IATA	Void
· 14.5 Environmental hazards:	<i>Not applicable.</i>
· 14.6 Special precautions for user	<i>Not applicable.</i>
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	<i>Not dangerous according to the above specifications.</i>
· UN "Model Regulation":	Void

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard statements** *Please refer section 2.*
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** *Substance is not listed.*
- **National regulations:**
- **Information about limitation of use:** *Employment restrictions concerning juveniles must be observed.*

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- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing SDS:** SHEQ

- **Contact:** sds@azelis.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- *** Data compared to the previous version altered.**