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Responsible Care
L'impegno dell'industria chimica
per l'ambiente
la sicurezza la salute

COMPANY WITH
ENVIRONMENTAL MANAGEMENT
SYSTEM CERTIFIED BY DNV
ISO 14001

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001/2000



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Revision

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SAFETY DATA SHEET **(2001/58/EC)**

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

1.1 Identification of the substance**FERRILENE****1.2 Intended use**

Agriculture fertilizer

1.3 Identification of the company/undertaking

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1.4 Emergency telephone

Tel. 0872 881366
Tel. 02 66101029 (Centro Antiveleni Ospedale Niguarda
Milano)

2 – HAZARDS IDENTIFICATIONS

Classification: the product is not classified as hazardous according to 99/45/EC**Principal chemical and physical hazards:** the product does not present any risk in normal handling conditions**Negative effects:**

- **On health:** the product is not hazardous if correctly handled. Avoid anyhow eye and skin contact and ingestion. High powders concentrations may cause irritations to nose and to respiratory tract.

Symptoms connected to improper use: not available**Other hazards:** in case of fire thermal decomposition fumes are highly toxic (NO_x, SO_x)

3 – COMPOSITION/INFORMATION ON INGREDIENTS

General information on ingredients: Ethylenediammino-N-N'-bis (2-idroxy) phenilacetic acid
sodium ferric complex.



4 – FIRST AID MEASURES

Symptoms and effects description

- **Inhalation:** powder may irritate respiratory tract
- **Skin contact:** Rinse the contaminated part with water and soap. Wash clothes before reuse.
- **Eye contact:** Rinse with water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if the irritation spreads.
- **Ingestion:** rinse mouth with water. Give water to drink. Seek medical advice.

Special first aid equipment: not applicable

5 – FIRE-FIGHTING MEASURES

Suitable extinguishing media: Vaporized water, foam, CO₂.

Unsuitable extinguishing media: not known

Special exposure hazards caused by substance, combustible products or fumes: nitrous and sulphurous fumes may be released

Special protective equipment for fire-fighters: Use self-contained respiratory equipment and fireproof clothing

6 – ACCIDENTAL RELEASE MEASURE

Personal precautions (see section 8)

Wear protective equipment before entering into dangerous area

Environmental precautions:

When possible pick up the product into a clean recipient either to reuse or dump.

Methods for cleaning up:

Wash the residual with plenty of water

- **Use of absorbing material:** Absorb with inert material (vermiculite). According to the contamination level store in an authorized dump.



7 – HANDLING AND STORAGE

7.1 Handling

Safety precautions

- **Local and general ventilation:** Operate in well-ventilated areas far from incompatible and reactive substances
- **Environment protection:** Storage in limited areas with containing device
- **Specific requirement (recommended equipment and handling advice):** Always respect hygienic rules, do not drink neither eat. Avoid eye and skin contact. Avoid powder inhalation. Use self-protective equipment. Remove all contaminated clothing and wash them before reuse.

7.2 Storage

Safety conditions

- **Incompatible products:** watery solutions in contact with copper and aluminium release hydrogen
- **Storage information:** Keep containers tightly closed in a well-ventilated place. Avoid powder making, in some concentrations the product may form an air-powder explosive mixture
- **Packing materials recommended:** Plastic packaging

7.3 Specific use: not applicable

8 – PERSONAL PROTECTION/ EXPOSURE CONTROL

8.1 Exposure limits

ACGIH (2003): Iron soluble salts: TLV/TWA: 1mg/m³

ACGIH (2003): recommended limit – powder to be inhaled: TLV/TWA: 10 mg/m³

ACGIH (2003): recommended limit – breathable powder: TLV/TWA: 3 mg/m³

8.2 Exposure control

Ensure general or local air exchange through aspirators where fumes can be released

8.2.1 Professional exposure control

8.2.1.1 Respiratory protection: Use anti-powder mask with P2 filters

8.2.1.2 Hand protection: Use long PVC gloves with cuffs

8.2.1.3 Eye protection: Protect eye/face, provide eye baths

8.2.1.4 Skin protection: wear protective clothing

8.2.2 Environmental exposure control: Keep product concentration under the established exposure limits



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9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 GENERAL INFORMATION

Appearance

- Physical state (25° C): solid
- Colour: dark red
- Appearance: Microgranules

Odour odourless

9.2 IMPORTANT INFORMATION ABOUT HEALTH, SAFETY AND ENVIRONMENT

pH water solution 1%	7.5	25° C
Boiling point/range	Not applicable	°C at Pa (1mmHg = 133.32 Pa)
Flammability point/range (liquids)	Not applicable	°C open container
Flammability (solids)	Not available	°C closed container
Flammability (gases, gasiform liquids and solids)	Not available	Explosion limit inf. % vol.
		Explosion limit sup. % vol.
Explosive properties	Not applicable	
Combustive properties	Not applicable	mm/s
Vapour pressure	Not available	kPa at 20° C (1 mmHg = 133.32 Pa)
Relative density	0.75	kg/dm ³
Solubility		
• Hydro-solubility	350	g/l at 25° C
Partition coefficient (n-octanol/water) Pow	Not available	Log Pow = at °C
Viscosity	Not applicable	Pa.s at °C
Vapour density (air = 1)	Not applicable	
Vaporization speed (depending upon...)	Not applicable	
9.3 OTHER INFORMATION		
Auto-ignition	Not available	°C
Explosion limit (inf.) of powder in air	Not applicable	g/m ³
Melting point/range	Not applicable	°C
Decomposition temperature	Not available	°C
Apparent density	Not available	
Solubility in others solvents	Not available	
Conductivity	Not available	(1%) mS/cm 18 °C
Explosion limit (LEL)	>40	g/m ³



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10 – STABILITY AND REACTIVITY**10.1 Conditions to avoid:** reactions with strong oxidants. Heating at high temperature (250-300 °C) and humid and unventilated places**10.2 Materials to avoid:** watery solutions in contact with copper and aluminium release hydrogen**10.3 Hazardous decomposition products:** in case of fire SO_x CO**11 – TOXICOLOGICAL INFORMATION****Hazardous effects on health caused by exposure (see sections 2 and 4)****Organs target****Symptoms****Information about different kind of exposure**

- **Inhalation:** Fumes can irritate respiratory tract. Nitrogen oxides, which may be released over 150° C, can cause lungs oedema as well as an increased sensibility to respiratory tract infections.
- **Skin and eye contact:** The prolonged skin contact may cause irritation and hitching, the direct eye contact may cause irritation

Immediate, delayed and chronic effects caused by short or long exposure

No relevant carcinogenic effects

12 – ECOLOGICAL INFORMATION

Use according to good working rules, avoid to dispose of the product in the environment.

12.1 Ecotoxicity:

- **Aquatic:** not available

12.2 Mobility: not available**12.3 Persistence and degradability:** not available**12.4 Potential of bioaccumulation:** not available**12.5 Other hazardous effects:** Not available**13 – DISPOSAL INFORMATION****Safety descriptions and measures upon disposal of surplus and residual:****Suitable disposal of the product:** According to the contamination level and nature, store the residual product as fertilizer in farm or in an authorized dump**Suitable disposal of contaminated packaging:** After cleaning up packing must be recycled as plastic**Community disposition of waste:****National or regional dispositions:**

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14 – TRANSPORT INFORMATION

UN number:
Packing group:
Description of goods:
Transport class:
Particular precautions:

15 – REGULATORY INFORMATION

Label information:
<i>Specific community dispositions upon man and environment protection</i>
<i>Professional exposure limit</i>
ACGIH (2003): recommended limit – powder to be inhaled: TLV/TWA: 10 mg/m ³
ACGIH (2003): recommended limit – breathable powder: TLV/TWA: 3 mg/m ³

16 – OTHER INFORMATION

Relevant information about safety, health and environment
<ul style="list-style-type: none">Integral text of pertinent phrases R:Professional training information: The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility the correct use of this product, according to suitable measures of industrial hygieneInformation about handling and eventual restrictions: Do not use the product for different purpose. This may cause not estimated risksSources: 1 – Raw materials producers' data 2 – Limits and IBE about risks caused by chemical agents in working places (Federchimica Ed.2003)

All the information in the safety data above is to our best present knowledge correct and complete. All safety measures are not provided on the safety sheet so other measures in particular conditions can not be requested. It remains the user responsibility to make sure that the information is appropriate and complete for product special use.
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