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# Complying with 1907/2006/EEC Regulation of 18 December 2006 ("REACH Regulation") and REGULATION (EC) No 1272/2008 (CLP)

# Section 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

 Product name: HAIFA MICRO Fe-EDDHA

 Trade Name: HAIFA MICRO Fe-EDDHA

 Chemical name: sodium [[α,α'-(ethylenediimino)bis[2-hydroxybenzene-1-acetato]](4-)]ferrate(1-)

 Synonyms: Ferrate(1-), [[alpha,alpha'-(1,2-ethanediyldiimino)bis[2-hydroxybenzeneacetato]](4-)]-, sodium; Fe(III) Ethylene diamine bis(2-hydroxyphenyl) acetic acid, sodium salt

 Chemical formula: C<sub>18</sub>H<sub>16</sub>FeN<sub>2</sub>O<sub>6</sub>.Na

 CAS number: 16455-61-1

 EC number: 240-505-5

 Product type: Solid

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

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

Company/undertaking identification European Importer: Haifa Chemicals Northern Europe Generaal de Wittelaan 17, bus 16, B-2800 Mechelen, Belgium Tel: +32-15-270811 Fax: +32-15 270815 E-mail: NorthWestEurope@haifa-group.com

#### **Other Countries Importer**

Supplier/Manufacturer: Haifa Chemicals Ltd. P.O.Box 15011, Matam-Haifa, 31905, Israel Tel: +972-74-7373737 Fax:+972-74-7373733 Email: <u>Regulatory@haifa-group.com</u>

#### E-mail address of person responsible for this SDS: <u>Regulatory@haifa-group.com</u>

#### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation):** +972-74-7373737 CHEMTREC (U.S.): 1-800-424-9300





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#### Section 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### Classification in accordance to Regulation(EC) No. 1272/2008 (CLP/GHS)

Product name	GHS Classification
HAIFA MICRO Fe-EDDHA	Not classified

#### Classification according to Directive 67/548/EEC (DSD) or 1999/45/EC

Product name	EU Classification
HAIFA MICRO Fe-EDDHA	Not classified

#### 2.2 Label elements

Labeling in accordance with Regulation 1272/2008 (CLP) Hazard pictograms: Not required Signal word: Not classified Hazard statements: Not classified Precautionary Statements: Not required

2.3 Other hazard

None

#### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance/preparation:

Product/ Ingredient name	Identifiers	%	EU Classification	GHS Classification
sodium [[α,α'- (ethylenediimino)bis[2- hydroxybenzene-1- acetato]](4-)]ferrate(1-)	CAS number: 16455-61-1 EC number: 240-505-5	30-60	Not classified	Not classified

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8. See section 16 for the full text of the H-statements and R-phrases declared above.



#### Section 4. FIRST AID MEASURES

#### 4.1 Description of first aid measures

- **Eyes contact:** In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
- **Skin contact:** Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.
- **Inhalation:** Remove from site of exposure to fresh air. If breathing is difficult, give oxygen. If not breathing give artificial respiration. Get medical attention.
- **Ingestion:** If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

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

Slightly irritating to eyes, skin and respiratory tract.

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

**Notes to physician:** No specific antidote, medical staff contacts Poisons Information Center. All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

Section 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

<u>Suitable:</u> Use an extinguishing agent suitable for surrounding fire. <u>Not suitable:</u> N/A

#### 5.2 Special hazards arising from the substance or mixture

May be combustible at high temperature. Hazardous thermal decomposition products: Under fire - oxides of carbon, oxides of nitrogen and oxides of iron.

#### 5.3 Advice for firefighters

**Special protective equipment for fire fighters:** Fire fighters should wear full protective clothing and self-contained breathing apparatus in positive pressure mode.

#### Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ventilate area of spill. Avoid dust formation. Avoid breathing dust.

#### 6.2 Environmental precautions

Do not let this chemical enter the environment. Keep away from drains, surface and ground water.





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#### 6.3 Methods and materials for containment and cleaning up

<u>Small spill</u>: Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

<u>Large spill</u>: Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

**Personal Protection in Case of Large Spill:** Safety glasses. Full suit. Suitable respirator. Boots. Gloves. A self- contained breathing apparatus should be used to avoid inhalation of the product.

#### 6.4 Reference to other sections

See Section 1 for emergency contact information.

#### Section 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

**Handling:** Avoid creating dusty conditions and prevent wind dispersal. Do not breathe dust. Avoid contact with skin and eyes. Wash thoroughly after handling. Keep away from heat and sources of ignition.

**Hygiene Measures:** Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information measures.

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

**Storage:** Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store together with oxidizing agents, acids and alkalis. Protect from elevated temperatures and humidity. Use original container.

#### 7.3 Specific end use(s): N/A

#### Section 8: EXPOSURE CONTROL / PERSONAL PROTECTION

#### 8.1 Control parameters Occupational exposure limit values: N/A

#### 8.2 Exposure controls

#### **Enginnering Measures**

Use process enclosures, local exhaust ventilation, or others engineering controls to keep airborne levels below recommend exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.





#### Person Protective measures

<u>Respiratory protection</u>: Suitable respirator. Be sure to use an approved/certified or equivalent equipment. Wear appropriate respirator when ventilation is inadequate. Recommended: Disposable particulate mask.

Eye/face protection: Wear protective safety glasses.

Skin protection: Wear appropriate long-sleeved clothing to minimize skin contact.

<u>Hand protection:</u> Wear protective disposable gloves to prevent skin exposure. Recommended: Disposable vinyl gloves.

**Environmental exposure controls:** Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Section 9: PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance: Reddish-brown granular solid Odour: Odorless Odour threshold: Odorless pH: 8 [Conc. (% w/w): 1%] (Basic.) Melting point/Freezing point: N/A Initial boiling point/boiling range: N/A Flash point: N/A Evaporation rate: N/A Flammability: N/A Upper/lower flammability or explosive limits: N/A Vapor pressure: N/A Vapor density: N/A Relative Density: 0.55 to 0.65 (Water = 1) Solubility(ies): 13.0 g/100 ml of water at 20°C (68°F) Partition coefficient Octanol/Water: N/A Auto-ignition temperature: >190°C (>374°F) Decomposition temperature: 190°C (374°F) Viscosity: N/A Explosive properties: N/A Oxidizing properties: N/A

**<u>9.2 Other information</u>** Bulk density: 0.7-0.8 g/cm<sup>3</sup>



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### Section 10: STABILITY AND REACTIVITY

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients

#### 10.2 Chemical stability

The product is stable under normal handling and storage conditions described in Section 7.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 10.4 Conditions to avoid

Elevated temperatures, humid conditions.

#### 10.5 Incompatible materials

Oxidizing materials, acids and alkalis.

#### 10.6 Hazardous Decomposition products:

Not available

#### Section 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Acute toxicity: N/A

Skin corrosion/irritation: N/A

Serious eye damage/irritation: N/A

Respiratory or skin sensitization: N/A

Germ cell mutagenicity: N/A

Carcinogenicity: N/A

Reproductive toxicity: N/A

Specific target organ toxicity (single exposure): N/A

Specific target organ toxicity (repeated exposure): N/A

#### Aspiration hazard: N/A

#### Other effects:

Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Target organs: N/A





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#### Section 12: ECOLOGICAL INFORMATION

#### <u>12.1 Toxicity</u> N/A

### 12.2 Persistence and Degradability

Not applicable, since inorganic substance.

# 12.3 Bioaccumulative potential N/A

<u>12.4 Mobility in soil</u> N/A

12.5 Results of PBT and vPvB assessment Not applicable

### 12.6 Other adverse effects

This material is not expected to be harmful to aquatic organisms. Not readily biodegradable.

#### Section 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Packing 1 4 1

Empty containers should be taken for local recycling, recovery or waste disposal.

Section 14: TRANSPORT INFORMATION					
<u>14.1 Un number:</u> ADR/RID: -	IMDG: -	<u>IATA:</u> -			
14.2 Proper shipping name: ADR/RID: Not regulated					
IMDG: Not regulated					
IATA: Not regulated					
14.3 Transport hazard class(es) ADR/RID: -	<u>IMDG:</u> -	<u>IATA:</u> -			
<u>14.4 Packing group</u> ADR/RID: -	IMDG: -	IATA: -			





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#### 14.5 Environmental hazard

Marine Pollutant: N/A

#### 14.6 Special precautions for user

Not available

#### 14.7 Transport to bulk according to Annex II of MARPOL 79/78 and the IBC Code

Not available

Section 15: REGULATORY INFORMATION

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

EU Directives 67/548/EEC and 1999/45/EC (including amendments) EU Regulation(EC) No.1907/2006 (REACH), No 1272/2008 (CLP)

#### 15.2 Chemical safety assessment

Not available

#### Section 16: OTHER INFORMATION

Training advice: Before using/handling the product one must read carefully present MSDS.

### Recommended restriction: N/A

Key Legend Information: ACGIH- American Conference of Governmental Industrial Hygienists OSHA- Occupational Safety and Health Administration NTP- National Toxicology program IARC- International Agency for Research on Cancer ND- Not Determined N/A- Not available R-phrases- Risk phrases S-phrases- Safety phrases

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