



山东中蓝化工有限公司

**ZHONGLAN INDUSTRY CO.,LTD.**

ADD: 7/F SANQING FENGRUN BLDG,NO.100 SOUTH GONGYE ROAD,  
JINAN CITY, CHINA.P.C.:250100 TEL:86-531-82956570

Email ID: info@zhonglanindustry.com

## 1 . IDENTIFICATION OF SUBSTANCE & THE COMPANY

**Product name :** **EDDHA Ferric Sodium, Ferric-EDDHA, EDDHA-Fe**

**Synonym:** EDDHA iron

**Stock number:** 001086

**Product Use:** Chelating agent/Plant nutrient

**Information Department :** Health,safety and Environmental Department

**Manufacturer/Supplier :**

ZHONGLAN INDUSTRY CO.,LTD

Tel: +86 531 82956570 Fax: +86 531 82956571

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## 2 . COMPOSITION / DATA ON COMPONENTS

**Chemical characterization:** it is a stable water soluble metal chelate, mainly used In agriculture and horticulture as micronutrient, and calcium is present in a chelated form.

**Description:(CAS#):** 16455-61-1

**Description appearance :** Dark red-brown micro-granular

## 3 . HAZARDS IDENTIFICATION

**Hazard description:** Not applicable

**Information pertaining to particular dangers for man and Environment:** Not applicable

**Classification system**

**HMIS ratings (scale 0-4)(Hazardous Materials Identification System)**

HEALTH (acute effects)	=	1
FIAMMABILITY	=	1
REACTIVITY	=	1

## 4 .FIRE AID MEASURES



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**After inhalation:**

Supply fresh air.If required,provide artificial respiration . Keep patient warm.

Seek immediate medical advice.

**After skin contact:**

Immediately wash with water and soap and rinse thoroughly.Seek immediate medical advice.

**After eye contact:**Rinse opened eye for several minutes under running water.Then consult a doctor.

**After swallowing:**seek medical treatment.

## **5 . FIRE FIGHTING MEASURES**

**Suitable extinguishing agents:**

Carbon dioxide ,extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Special hazards caused by the material, its products of combustion or resulting gases:**

In case of fire, the following can be released: Carbon monoxide and carbon dioxide, Nitrogen oxides(NO<sub>x</sub>),Metal oxide fume

**Protective equipment:** Wear self-contained respirator. Wear fully protective impervious suit.

## **6 . ACCIDENTAL RELEASE MEASURES**

**Person-related safety precautions:**

Wear protective equipment.Keep unprotected persons away.

Ensure adequate ventilation

**Measures for environmental protection:**

Do not allow material to be released to the environment without proper governmental permits.

**Measures for cleaning/collecting:** Pick up mechanically.

**Additional information:**

See Section 7 for information on safe handling

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

## **7. HANDLING AND STORAGE**

**Information for safe handling:**



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Keep container tightly sealed.Store in cool,dry place in tightly closed containers. No special precautions are necessary if used correctly.

**Information about protection against explosions and fires:**

No special measures required.

**Storage**

**Requirements to be met by storerooms and receptacles:**

No special requirements.

**Information about storage in one common storage facility:**

Do not store together with oxidizing and acidic materials.

**Further information about storage conditions:**

Keep container tightly sealed. Store in cool,dry conditions in well sealed containers.

## **8. EXPOSURE CONTROL AND PERSONAL PROTECTION**

**Additional information about design of technical systems:**

Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.

**Components with limit values that require monitoring at the workplace:**Not required.

**Additional information:** No data

**Personal protective equipment**

**General protective and hygienic measures:**

The usual precautionary measures for handling chemical should be followed

Keep away from foodstuffs, beverages and feed.

Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work.

**Breathing equipment:**

Use suitable respirator when high concentrations are present.

**Protection of hands:** Impervious gloves

**Eye protection:** Safety glasses

**Body protection:** Protective work clothing.

## **9. PHYSICAL AND CHEMICAL PROPERTIES:**

### **General Information**



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<b>Form:</b>	powder
<b>Color:</b>	Dark red-brown micro-granular
<b>Odor:</b>	odorless
<b>Change in condition</b>	
<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling ranger:</b>	Not determined
<b>Sublimation temperature/start:</b>	Not determined
<b>Flash point:</b>	Not applicable
<b>Flammability(solid,gaseous)</b>	Product is not flammable.
<b>Ignition temperature:</b>	Not determined
<b>Decomposition temperature:</b>	Not determined
<b>Danger of explosion:</b>	Product does not present an explosion hazard
<b>PH:</b>	7.0-9.0 (1% w/v Solution)

<b>Explosion</b>	
<b>limits: Lower:</b>	Not determined Not
<b>Upper:</b>	determined
<b>Vapor</b>	Not determined
<b>Density:</b>	Not determined
<b>Solubility in /Miscibility with Water:</b>	WATER-INSOLUBLE≤0.1%

## 10. STABILITY AND REACTIVITY

### Thermal decomposition/conditions to be avoided:

Decomposition will not occur if used and stored according to specifications.

### Materials to be avoided:

Acids , Oxidizing agents

**Dangerous reactions** No dangerous reactions known.

### Dangerous products of decomposition :

Carbon monoxide and carbon dioxide

Nitrogen oxides(NOx)

Metal oxide fume

## 11 . TOXICOLOGICAL INFORMATION

### Acute toxicity:

No acute toxicity known.



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**Primary irritant effect:**

**On the skin:** May cause irritation

**On the eye:** May cause irritation

**Subacute to chronic toxicity:**

Ferric compounds may cause vomiting,diarrhea,pink urine,black stool,and liver damage.May cause damage to the kidneys.Irritating to the respiratory tract,they may cause pulmonary fibrosis if dusts are inhaled.

**Subacute to chronic toxicity:**

Animal studies with EDDHA salts have reported convulsions,weight loss,liver,kidney,ureter,and bladder changes. Fetotoxicity and developmental abnormalities have also been reported from studies on animals.

**Additional toxicological information:**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

No classification data on carcinogenic properties of this material is available from the EPA,IARC,NTP,OSHA or ACGIH.

## 12 . ECOLOGICAL INFORMATION

**General notes:** Do not allow material to be released to the environment without proper governmental permits.

## 13 . DISPOSAL CONSIDERATIONS

**Product:** EDDHA iron

**Recommendation:** Consult state, local or national regulations to ensure proper disposal.

**Uncleaned packagings:**

Recommendation: Disposal must be made according to official regulations.

## 14. TRANSPORT INFORMATION

**Not a hazardous material for transportation.**

### 14.1 Land transport (ADR/RID)



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UN number	Not classified as dangerous for transport.
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing Group	Not applicable.

#### **14.2 Sea transport (IMDG)**

UN number	Not classified as dangerous for transport.
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing Group	Not applicable.
EmS:	F-A, S-B
Marine Pollutant	Not classified as a Marine Pollutant.

#### **14.3 Air transport (ICAO/IATA)**

UN number	<b>Not classified as dangerous for transport.</b>
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing Group	Not applicable.

## **15. REGULATIONS**

### **Product related hazard informations:**

Observe the general safety regulations when handling chemicals

### **National regulations**

All components of this product are listed in the U.S. Environmental .Protection Agency Toxic Substances Control Act Chemical substance Inventory.

Some or all of the components of this product are not listed on the Canadian Domestic Substances List (DSL) or the Canadian Non-Domestic Substances List (NDSL).

### **Information about limitation of use:**

For use only by technically qualified individuals.



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## **16. ADDITIONAL INFORMATION**

Date of First Issue: June 21, 2005

Revision No.: 8.0

Revision Date: Jan.5, 2017

The information in this Material Safety Data Sheet should be provided to all who will use, handle, store, transport or otherwise be exposed to this product. All information concerning this product or all suggestions for handling and use contained herein are offered in good faith and are believed to be reliable as of the date of publication.

**End of safety data sheet**

**Manufacturer/Supplier :**

ZHONGLAN INDUSTRY CO., LTD.