NCCM®
专业的螯合微量元素提供商
The Agrochemical Company

Material Safety Data Sheet

NANCHANG CHANGMAO NEW MATERIAL CO., LTD.
EDDHA Ferric Sodium
MSDS NO.: CM06-11

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:
NANCHANG CHANGMAO NEW MATERIAL CO., LTD.
Tel: +86-791-83499003 Fax: +86-791-83499017
Add: Anyi County Industrial Park Nanchang City, P.R.C
HANDLING EMERGENCIES: +86-519-86675289（NCCM Company Changzhou Office -Jiangsu China）

2. COMPOSITION / DATA ON COMPONENTS

Chemical characterization: It is a stable water soluble metal chelate, mainly used in agriculture and horticulture as micronutrient, and iron element is present in a chelated form.
Description:(CAS#): 84539-55-9
Description appearance : Dark red-brown to black powder/microgranule or red granule

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
FlAMMABILITY	=	1
REACTIVITY	=	1

4.FIRE AID MEASURES

After inhalation:
Supply fresh air. If required, provide artificial respiration. Keep patients 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 (NOX), 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:

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 PRORTECTION

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

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

Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined
Solubility in /Miscibility with Water:	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.
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 form 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 packaging:
Recommendation: Disposal must be made according to official regulations.

14. TRANSPORT INFORMATION

Not a hazardous material for transportation.

14.1 Land transport (ADR/RID)	
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	**Not classified as dangerous for transport.**
Proper Shipping Name	Not applicable.
Transport hazard class(es)	Not applicable.
Packing Group	Not applicable.

15. REGULATIONS

Product related hazard information:
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.

16. ADDITIONAL INFORMATION

Date of First Issue: June 21, 2005
Revision No.: 8.0
Revision Date: Jan.5, 2019

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 handing 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:
NANCHANG CHANGMAO NEW MATERIAL CO., LTD.