



## Safety Data Sheet

In accordance with CFR 1910.1200 (OSHA HCS)

SDS No. 105

Date of review: March 27, 2020

### 1 Identification of substance and company

**Product name:** **Ammonium iron (III) EDTA**  
**Product code:** 16122  
**Relevant use and restrictions on use:** Research and product development  
**Manufacturer/Supplier:** Noah Technologies Corporation  
1 Noah Park  
San Antonio, Texas 78249-3419  
Phone: 210-691-2000  
Fax: 210-691-2600  
Web site: www.noahtech.com  
**Emergency information:** CHEMTREC  
800-424-9300

### 2 Hazards identification

#### Emergency Overview:

**Signal word(s):** None  
**Pictogram(s):** None  
**Hazard statements:** None  
**Precautionary statements:** None  
**Hazards not otherwise classified:** None  
**Ingredients of unknown acute toxicity:** None  
**GHS Classification:** Not classified according to CFR 1910.1200 (OSHA HCS)  
**HMIS ratings (scale 0-4):**  
Health hazard: 1  
Flammability: 0  
Physical hazard: 0

### 3 Composition/Information on ingredients

**Chemical name:** Ammonium iron (III) EDTA  
**Designation:**  
**CAS number:** 21265-50-9  
**EC number:** 244-302-2  
**Formula:**  $\text{NH}_4\text{FeC}_{10}\text{H}_{16}\text{N}_2\text{O}_8$   
**Synonyms:** Ammonium Fe(III)ethylenediaminetetraacetic acid,  
Ammonium [[N,N'-ethylenebis[N-(carboxymethyl)glycinato]](4-)-N,N',O,O',ON,ON]ferrate(1-)  
Propanoic acid,3-(ethylthio)-,ammonium salt

### 4 First aid measures

**After inhalation:** Move person into fresh air. If not breathing, give artificial respiration. Consult a physician.  
**After skin contact:** Wash off with soap and plenty of water. Consult a physician.  
**After eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.  
**After ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth out with water. Consult a physician.  
**Information for doctor:** Show this safety data sheet to the doctor in attendance  
**Symptoms/effects; acute and delayed:** Iron compounds may cause vomiting, diarrhea, pink urine, black stool, and liver and kidney damage  
**Immediate medical attention and special treatment needed:** No data available

### 5 Fire-fighting measures

**Suitable and unsuitable extinguishing agents:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide  
**Special hazards caused by the material, its products of combustion or resulting gases:** Oxides of iron and nitrogen (NOx), carbon monoxide and dioxide  
**Special fire fighting procedures:** Wear self-contained breathing apparatus (SCBA) and fully protective fire fighting equipment/clothing  
**Unusual fire and explosion hazard:** No data available

### 6 Accidental release measures

**Person-related safety precautions:** Use personal protective equipment. Avoid dust formation. Avoid breathing dust.

<b>Measures for environmental protection:</b>	Do not let product enter drains
<b>Measures for cleaning/collecting:</b>	Sweep or scoop up and remove. Place in a suitable container for proper disposal.
<b>Additional information:</b>	See Section 7 for information on safe handling See Section 8 for information on personal protective equipment See Section 13 for information on disposal See Section 15 for regulatory information

#### 7 Handling and storage

<b>Information for safe handling:</b>	Avoid contact with skin and eyes. Avoid formation of dust. Use with adequate ventilation.
<b>Information about protection against explosions and fires:</b>	Normal measures for preventive fire protection.
<b>Storage requirements to be met by storerooms and containers:</b>	Keep container tightly closed in dry and well-ventilated place
<b>Incompatibility (avoid contact with):</b>	Strong acids and oxidizers
<b>Further information about storage conditions:</b>	No further information available

#### 8 Exposure controls/personal protection

<b>Ventilation requirements:</b>	Use with adequate ventilation
<b>Components with exposure limits that require monitoring:</b>	Particulates no otherwise classified: ACGIH TLV: TWA 1 mg(Fe)/m <sup>3</sup>
<b>Additional information:</b>	No further information available
<b>General protective and hygienic measures:</b>	The usual precautionary measures for handling chemicals should be adhered to Keep away from foodstuffs, beverages and food Instantly remove any soiled and impregnated garments Wash hands during breaks and at the end of the work Avoid contact with the eyes and skin
<b>Personal protective equipment:</b>	
<b>Respiratory protection: (Use only NIOSH or CEN approved Equipment)</b>	Filter-dust, fume, mist respirator
<b>Hand protection:</b>	Impervious gloves
<b>Eye protection:</b>	Safety glasses with side-shields
<b>Skin protection:</b>	Protective work clothing
<b>Additional protective equipment:</b>	Sufficient to prevent contact. Emergency eyewash and safety shower.
<b>Precautionary labeling:</b>	Wash thoroughly after handling Do not get in eyes, on skin or on clothing Do not breathe dust, vapor, mist, or gas

#### 9 Physical and chemical properties

<b>Physical state:</b>	Powder
<b>Color:</b>	Brown-red
<b>Odor:</b>	Odorless
<b>Odor threshold:</b>	No data available
<b>Molecular Weight (Calculated):</b>	362.10
<b>pH</b>	No data available
<b>Melting point/freezing point/range:</b>	No data available
<b>Boiling point/range:</b>	No data available
<b>Sublimation temperature/start:</b>	No data available
<b>Decomposition temperature:</b>	No data available
<b>Flammability (solid, gas):</b>	Non-flammable
<b>Autoignition temperature:</b>	No data available
<b>Danger of explosion:</b>	No data available
<b>Flammable limits:</b>	No data available
<b>Lower:</b>	No data available
<b>Upper:</b>	No data available
<b>Evaporation Rate:</b>	No data available
<b>Vapor pressure (mm Hg):</b>	No data available
<b>Vapor density:</b>	No data available
<b>Specific gravity:</b>	No data available
<b>Bulk density:</b>	No data available
<b>Solubility in/Miscibility with water:</b>	No data available
<b>Partition coefficient n-octanol/water:</b>	No data available
<b>Viscosity:</b>	No data available

#### 10 Stability and reactivity

<b>Reactivity:</b>	No data available
<b>Chemical stability:</b>	Stable
<b>Possibility of hazardous reactions:</b>	No data available

<b>Conditions to be avoided:</b>	Excessive heat See section 7 for information on proper handling and storage
<b>Materials to be avoided:</b>	Strong acids, strong oxidizers
<b>Dangerous reactions:</b>	No data available
<b>Hazardous decomposition products: (thermal and other)</b>	Oxides of iron and nitrogen (NOx), carbon monoxide and dioxide

#### 11 Toxicological information

<b>LD/LC50 values that are relevant for classification:</b>	No data available
<b>Irritation or corrosion of skin:</b>	No data available
<b>Irritation or corrosion of eyes:</b>	No data available
<b>Primary irritant or corrosive effect: on the skin:</b>	May cause irritation
<b>on the eye:</b>	May cause irritation
<b>Sensitization:</b>	No data available
<b>Potential health effects:</b>	
<b>Inhalation:</b>	May cause irritation to the upper respiratory tract and mucous membranes
<b>Ingestion:</b>	See below
<b>Skin:</b>	See below
<b>Eyes:</b>	See below
<b>Signs and symptoms of exposure:</b>	Iron compounds may cause vomiting, diarrhea, pink urine, black stool, and liver damage. May cause damage to the kidneys. Irritating to the respiratory tract, may cause pulmonary fibrosis if dusts are inhaled. Irritating to the eyes and skin.  To the best of our knowledge the acute and chronic toxicity of this substance is not fully known
<b>Carcinogenicity:</b>	Not listed as a carcinogen with IARC, ACGTIH, NTP or OSHA
<b>Additional information:</b>	No additional information available

#### 12 Ecotoxicological information

<b>Toxicity:</b>	
<b>Toxicity to fish:</b>	No data available
<b>Toxicity to daphnia and other aquatic invertebrates:</b>	No data available
<b>Toxicity to algae:</b>	No data available
<b>Persistence and degradability:</b>	
<b>Biodegradability:</b>	No data available
<b>Bioaccumulative potential:</b>	
<b>Bioaccumulation:</b>	No data available
<b>Mobility in soil:</b>	No data available
<b>Other adverse effects:</b>	May be harmful to aquatic organisms. Avoid release to the environment.

#### 13 Disposal considerations

<b>Recommendation:</b>	Consult state, local or national regulation for proper disposal Allow professional disposal company to handle waste Must be specially treated under adherence to official regulations
<b>Unclean packagings recommendation:</b>	Disposal must be made according to official regulations

#### 14 Transport information

##### Land transport DOT

<b>Proper shipping name:</b>	Chemicals Non-Hazardous
<b>Technical name:</b>	Ammonium iron (III) EDTA

##### Air transport ICAO-TI and IATA-DGR:

<b>Proper shipping name:</b>	Chemicals Non-Hazardous
<b>Technical name:</b>	Ammonium iron (III) EDTA

##### UPS Ground / FedEx Ground

<b>Proper shipping name:</b>	Chemicals Non-Hazardous
<b>Technical name:</b>	Ammonium iron (III) EDTA

##### UPS Air

<b>Proper shipping name:</b>	Chemicals Non-Hazardous
<b>Technical name:</b>	Ammonium iron (III) EDTA

#### 15 Regulatory information

<b>SARA Section 302 Extremely Hazardous components and corresponding TPQs:</b>	Not subject
<b>SARA Section 311 / 312 hazards:</b>	Not subject
<b>SARA Section 313 components:</b>	Not subject
<b>California Proposition 65 components:</b>	Not subject
<b>TSCA:</b>	Material is listed on TSCA Inventory

#### 16 Other information

The above information is accurate to the best of our knowledge. However, since data, safety standards and government regulation are subject to change and the conditions of handling and use, or misuse are beyond our control. NOAH MAKES NO WARRANTY, EITHER EXPRESSED OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND DISCLAIMS ALL LIABILITY FOR RELIANCE THEREON. User should satisfy himself that he has all current data relevant to his particular use.