# SAFETY DATA SHEET

## 1. Identification

Product identifier	Homestretch Fe 6% Fe EDDHA	
Other means of identification		
Product code	21007MER	
Synonyms	EDDHA-FE(III)-NA	
Recommended use	Agricultural/ Horticultural Use- Micronutrient Fertilizer- Refer to product label.	
<b>Recommended restrictions</b>	Refer to product label.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name Address	Meristem Crop Performance 489 Village Park Dr. Powell, OH 43065 United States	
Telephone	833-637-4783	
Website	www.meristemag.com	
E-mail	MDEviston@MeristemAg.com	
Emergency phone number	National Capital Poison 800-222-1222 Center	
2. Hazard(s) identification		
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	Harmful to aquatic life. Harmful to aquatic life with long lasting effects.	

Signal word	None.
Hazard statement	Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Precautionary statement	
Prevention	Avoid release to the environment. Observe good industrial hygiene practices.
Response	Wash hands after handling.
Storage	Store away from incompatible materials.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
Hazard(s) not otherwise classified (HNOC)	None known.
Supplemental information	None.

## 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Ferric EDDHA, Sodium Salt		16455-61-1	90 - 100
4. First-aid measures			
Inhalation	Move to fresh air. Call a physician if symptoms develop or persist.		
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.		
Eye contact	Rinse with water. Get medical attention if irritation develops and persists.		
Ingestion	Rinse mouth. Get medical attention if symptoms occur.		

Most important symptoms/effects, acute and delayed	Direct contact with eyes may cause temporary irritation.	
Indication of immediate medical attention and special treatment needed	Treat symptomatically.	
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.	
5. Fire-fighting measures		
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.	
Fire fighting equipment/instructions	Use water spray to cool unopened containers.	
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.	
General fire hazards	No unusual fire or explosion hazards noted.	
6. Accidental release measures		
Personal precautions,	Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.	

protective equipment and emergency procedures	
Methods and materials for containment and cleaning up	Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.

### 7. Handling and storage Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

Observe good industrial hygiene practices.

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Store in secured area away from children, feed, and other food products. Store in original container. Store in a well-ventilated area. Storage temperature: 40 F to 100 F.

### 8. Exposure controls/personal protection

U.S OSHA Material	Туре	Value	Form
Ferric EDDHA, Sodium Salt	TWA	5 mg/m3	DUST: Respirable fraction
		15 mg/m3	DUST: Total dust
ACGIH Material	Туре	Value	Form
Ferric EDDHA, Sodium Salt	TWA	3 mg/m3	DUST: Respirable particles
		10 mg/m3	DUST: Inhalable particles
logical limit values	No biological exposure limits noted	for the ingredient(s).	
propriate engineering htrols	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to		

## maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

#### Individual protection measures, such as personal protective equipment Eye/face protection

Wear safety glasses with side shields (or goggles).

Skin protection Hand protection	Wear appropriate chemical resistant gloves.	
Other	Wear suitable protective clothing.	
<b>Respiratory protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment.	
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.	
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.	

# 9. Physical and chemical properties

· · · · · · · · · ·	
Appearance	Solid. Granular.
Physical state	Solid.
Form	Solid. Granular.
Color	Dark red. to Brown
Odor	Odorless.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or exp	losive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.000002 hPa estimated
Vapor density	Not available.
Relative density	Not available.
Solubility(ies)	
Solubility (water)	50 g/l @ 20 degrees C
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Bulk density	500 - 700 kg/m3 (approximate)
Explosive properties	Not explosive.
Molecular formula	C18H16FeN2O6.Na
Oxidizing properties	Not oxidizing.
pH in aqueous solution	7 - 9 (1% Solution)
10. Stability and reactivity	
Desethalts	The product is stable and non-repetive under normal conditions of use, starses and transport

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	Dust may form explosive mixture in air.
Conditions to avoid	Contact with incompatible materials. None known.

Incompatible materials	Strong oxidizing agents.
Hazardous decomposition	Carbon oxides and nitrogen oxides (NOx).
products	

### 11. Toxicological information

Information on likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.
Skin contact	Knowledge about health hazard is incomplete.
Eye contact	Knowledge about health hazard is incomplete.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

### Acute toxicity

Product	Species	Test Results
Ferric EDDHA, Sodium Salt		
<u>Acute</u>		
Dermal		
LD50	Rat	2000 mg/kg
Oral		
LD50	Rat	10000 mg/kg
Components	Species	Test Results
Ferric EDDHA, Sodium Salt (CAS	S 16455-61-1)	
Other		
EC50	Algae	> 60.6 mg/l
<u>Acute</u>		
Dermal		
LD50	Rat	> 2000 mg/kg
Oral		10000 //
LD50	Rat	10000 mg/kg
Skin corrosion/irritation	Due to partial or complete	lack of data the classification is not possible.
Irritation Corrosion - S Ferric EDDHA, Sod		OECD Guideline 404 Result: non-irritant Species: Rabbit
Serious eye damage/eye irritation	Due to partial or complete	lack of data the classification is not possible.
Irritation Corrosion - E Ferric EDDHA, Sod		OECD Guideline 405 Result: non-irritant Species: Rabbit
Respiratory or skin sensitization	on	
Respiratory sensitization	Due to partial or complete	lack of data the classification is not possible.
Skin sensitization	Due to partial or complete	lack of data the classification is not possible.
Sensitization Ferric EDDHA, Sod	ium Salt	OECD Guidline 429 Result: Non-sensitizing Species: Rat
Germ cell mutagenicity	Due to partial or complete	lack of data the classification is not possible.
Carcinogenicity		lack of data the classification is not possible.
<b>U</b>	Evaluation of Carcinogenic	-
Not listed.	· · · · · · · · · · · · · · · · · · ·	

Not listed.	ed Substances (29 CFR 1910.1001-1053) ogram (NTP) Report on Carcinogens
Not listed.	
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.

# 12. Ecological information

otoxicity		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.			
Product		Species	Test Results		
Ferric EDDHA, Sodium Salt					
Aquatic					
Acute					
Crustacea	EC50	Daphnia	100 mg/l, 48 h estimated		
Fish	LC50	Fish	100 mg/l, 96 h estimated		
Components		Species	Test Results		
Ferric EDDHA, Sodium Salt	(CAS 16455-6	61-1)			
Aquatic					
Algae	EC10	Green algae (Chlamydomonas variabilis)	> 100 mg/l, 72 h The product has not been tested. The statement has been derived from substances/products of a similarstructure or composition. Nomi concentration.		
	EC50	Green algae (Chlorella kessleri)	> 60.6 mg/l, 72 h Inhibition of algal growth is due to the complexing properties of the stances and is not ascribed to an intrinsic toxicty		
Acute					
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 h		
Fish	LC50	Oncorhynchus mykiss (reported as Salmo gairdneri)	> 100 mg/l, 96 h Limit concentration te only (LIMIT test). No mortality was observed. Nominal values (confirmed concentration control analytics)		
Chronic					
Crustacea	NOEC	Daphnia magna	31 mg/l, 21 d The product has not beet tested. The statement has been deriv from sbustances/products of a similiar structure or composition. Nominal values (confirmed by concentration control analytics)		
rsistence and degradability	No data is	available on the degradability of any ingredier	nts in the mixture.		
paccumulative potential	No data av	vailable.			
bility in soil	No data av	/ailable.			
ner adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.			
. Disposal consideratio	ons				
posal instructions		d reclaim or dispose in sealed containers at lic	ensed waste disposal site.		
	D'				

Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or line product residues. This material and its container must be disposed of in Disposal instructions).	
Contaminated packaging	Since emptied containers may retain product residue, follow label warnir emptied. Empty containers should be taken to an approved waste handl disposal.	
14. Transport information		
DOT		
Not regulated as dangerous	goods.	
ΙΑΤΑ		
Not regulated as dangerous (	goods.	
IMDG Not regulated as dangerous g	goods.	
15. Regulatory informatio	n	
US federal regulations	This product is not known to be a "Hazardous Chemical" as defined by t	he OSHA Hazard
	Communication Standard, 29 CFR 1910.1200.	
Toxic Substances Control	Act (TSCA)	
	port Notification (40 CFR 707, Subpt. D)	
Not regulated.		
CERCLA Hazardous Substa	ance List (40 CFR 302.4)	
Not listed. SARA 304 Emergency relea	ise notification	
Not regulated. OSHA Specifically Regulate	ed Substances (29 CFR 1910.1001-1053)	
Not listed.	, , ,	
Superfund Amendments and Re	eauthorization Act of 1986 (SARA)	
SARA 302 Extremely hazar	dous substance	
Not listed.		
SARA 311/312 Hazardous chemical	No	
SARA 313 (TRI reporting) Not regulated.		
Other federal regulations		
	n 112 Hazardous Air Pollutants (HAPs) List	
Not regulated. Clean Air Act (CAA) Section	n 112(r) Accidental Release Prevention (40 CFR 68.130)	
Not regulated.		
Safe Drinking Water Act (SDWA)	Not regulated.	
US state regulations		
California Proposition 65		
which are known to the S	can expose you to chemicals including arsenic, cadmium, and lead, State of California to cause cancer and birth defects or other reproductive ion go to www.P65Warnings.ca.gov.	
International Inventories		
Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes

Yes

No

Country(s) or region	Inventory name	On inventory (yes/no)*
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
Taiwan	Taiwan Chemical Substance Inventory (TCSI)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

### 16. Other information, including date of preparation or last revision

Issue date Version #	03-12-2024 01
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Revision information	Product and Company Identification: Alternate Trade Names