

SAFETY DATA SHEET

Creation Date 26-Sep-2009 Revision Date 19-Dec-2025 Revision Number 8

This safety data sheet was created pursuant to the requirements of: US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200)

1. Identification

Product Name Ethylenediaminetetraacetic acid, ferric sodium salt trihydrate

Cat No.: AC304680000; AC304680010; AC304680050; AC304680051;

AC304682500

CAS No 18154-32-0

Synonyms (Ethylenedinitrilo)tetraacetic acid ferric sodium salt trihydrate; EDTA ferric sodium salt

trihydrate

Recommended UseLaboratory chemicals.

Uses advised against Food, drug, pesticide or biocidal product use.

Details of the supplier of the safety data sheet

Company

Fisher Scientific Company Acros Organics
One Reagent Lane One Reagent Lane
Fair Lawn, NJ 07410 Fair Lawn, NJ 07410

Tel: (201) 796-7100

Emergency Telephone Number

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe**: +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe**:001-703-527-3887

2. Hazard(s) identification

Classification

Classification according to [US] OSHA (29 CFR 1910.1200, 2024)

This product is not considered hazardous by the US OSHA Hazard Communication Standard 2024 (29 CFR 1910.1200).

Label Elements

Hazard Statements

Precautionary Statements
Hazards not otherwise classified (HNOC)

None identified

Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available

3. Composition/information on Ingredients

Component	CAS No	Weight %
Ferrate(1-),	18154-32-0	>95
[[N,N'-1,2-ethanediylbis[N-(carboxymethyl)glycinato]		
](4-)-N,N',O ,O',ON,ON']-, sodium, trihydrate,		
(OC-6-21)-		
Sodium iron(III) ethylenetetraacetate	15708-41-5	-

4. First-aid measures

If symptoms persist, call a physician. **General Advice**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get **Eve Contact**

medical attention.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists,

call a physician.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if

symptoms occur.

Ingestion Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

Most important symptoms and

effects

None reasonably foreseeable.

Notes to Physician Treat symptomatically

Fire-fighting measures

Suitable Extinguishing Media Water spray, carbon dioxide (CO2), dry chemical, alcohol-resistant foam.

No information available **Unsuitable Extinguishing Media**

No information available **Flash Point** Method -No information available

Autoignition Temperature

Explosion Limits

Upper

Lower

No information available

No data available No data available Sensitivity to Mechanical Impact No information available Sensitivity to Static Discharge No information available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition.

Hazardous Combustion Products

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO₂). Heavy metal oxides.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA

HealthFlammabilityInstabilityPhysical hazards010N/A

6. Accidental release measures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust

formation.

Environmental Precautions Should not be released into the environment. Do not allow material to contaminate ground

water system. Do not flush into surface water or sanitary sewer system.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed **Up** containers for disposal.

7. Handling and Storage

Handling Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid

ingestion and inhalation. Avoid dust formation.

Storage. Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible

Materials. Strong oxidizing agents.

8. Exposure controls / personal protection

Exposure Guidelines

Component	ACGIH TLV	OSHA PEL	NIOSH	Mexico OEL (TWA)
Ferrate(1-),	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	$REL = 1 \text{ mg/m}^3 \text{ (TWA)}$	TWA: 1 mg/m ³
[[N,N'-1,2-ethanediylbis[N-(c				_
arboxymethyl)glycinato]](4-)-				
N,N',O ,O',ON,ON']-,				
sodium, trihydrate,				
(OC-6-21)-				
Sodium iron(III)	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	$REL = 1 \text{ mg/m}^3 \text{ (TWA)}$	TWA: 1 mg/m ³
ethylenetetraacetate	-			

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH: NIOSH - National Institute for Occupational Safety and Health

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations

and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles as described by

OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard

EN166.

Skin and body protectionWear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard

EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Recommended Filter type: Particulates filter conforming to EN 143.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

Appearance

Physical State Powder Solid Color Dark yellow

Odor No information available
Odor Threshold No information available

<u>Property</u> <u>Values</u> <u>Remarks</u> <u>• Method</u>

Melting Point/RangeNo data availableSoftening PointNo data availableBoiling Point/RangeNo information available

Flash Point No information available Method - No information available

Flammability (liquid) Not applicable Solid

Flammability (solid,gas) No information available

Explosion Limits No data available

Autoignition Temperature
Decomposition Temperature
pH

No data available
No data available
No information available

Viscosity Not applicable Solid

Water Solubility Soluble

Solubility in other solvents No information available

Partition Coefficient (n-octanol/water)

Vapor PressureNo data availableDensity / Specific GravityNo data availableBulk DensityNo data available

Vapor Density Not applicable Solid

Particle characteristics No data available

Other Information

Molecular Formula C10 H12 Fe N2 Na O8 . 3 H2 O

Molecular Weight 421.1

Evaporation Rate Not applicable - Solid

10. Stability and reactivity

Reactive Hazard None known, based on information available

Stability Stable under normal conditions.

Conditions to Avoid Incompatible products. Avoid dust formation.

Incompatible Materials Strong oxidizing agents

Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO₂), Heavy metal oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

11. Toxicological information

Information on expected route of exposure

Inhalation Avoid breathing dust or spray mist.

Ingestion No known effect based on information supplied.

Eyes Not an expected route of exposure.

Skin No known effect based on information supplied.

Toxicology data for the components

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium iron(III) ethylenetetraacetate	LD50 = 10 g/kg (Rat)	LD50 > 5000 mg/kg (Rat)	LC50 > 2.05 g/m ³ /4 h (Rat)

Toxicologically Synergistic

Products

No information available

(b) skin corrosion/irritation; No data available

(c) serious eye damage/irritation; No data available

(d) respiratory or skin sensitization;

Respiratory No data available Skin No data available

(e) germ cell mutagenicity; No data available

(f) carcinogenicity;

The table below indicates whether each agency has listed any ingredient as a carcinogen

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico
Ferrate(1-),	18154-32-0	Not listed				
[[N,N'-1,2-ethanediylbi						
s[N-(carboxymethyl)gly						
cinato]](4-)-N,N',O						
,O',ON,ON']-, sodium,						
trihydrate, (OC-6-21)-						
Sodium iron(III)	15708-41-5	Not listed				
ethylenetetraacetate						

(g) reproductive toxicity; No data available

(h) STOT-single exposure; No data available

(i) STOT-repeated exposure; No data available

Target Organs No information available.

(j) aspiration hazard; Not applicable

Solid

Symptoms / effects,both acute and No information available.

delayed

Other Adverse Effects The toxicological properties have not been fully investigated.

Endocrine Disrupting Properties This product does not contain any known or suspected endocrine disruptors.

12. Ecological information

Ecotoxicity

May cause long-term adverse effects in the environment. Do not allow material to contaminate ground water system.

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Sodium iron(III)	Not listed	LC50: > 100 mg/L, 96h static	Not listed	Not listed
ethylenetetraacetate		(Oncorhynchus mykiss)		

Persistence and Degradability based on information available. May persist

Bioaccumulation/ Accumulation No information available.

Mobility Will likely be mobile in the environment due to its water solubility.

13. Disposal considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a

hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

DOTNot regulatedTDGNot regulatedIATANot regulatedIMDG/IMONot regulated

15. Regulatory Information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-(carbox ymethyl)glycinato]](4-)-N,N',O ,O',ON,ON']-, sodium, trihydrate, (OC-6-21)-	18154-32-0	-	-	-
Sodium iron(III) ethylenetetraacetate	15708-41-5	X	ACTIVE	-

Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

TSCA - Per 40 CFR 751, Regulation of Certain Chemical Substances & Mixtures, Under TSCA Section 6(h) (PBT)

Not applicable

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Not applicable

TSCA 12(b) - Notices of Export

International Inventories Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Ethylenediaminetetraacetic acid, ferric sodium salt trihydrate

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
Ferrate(1-),	18154-32-0	-	-	-	-	Х		Х	-	-
[[N,N'-1,2-ethanediylbis[N-(carbox										
ymethyl)glycinato]](4-)-N,N',O										
,O',ON,ON']-, sodium, trihydrate,										
(OC-6-21)-										
Sodium iron(III)	15708-41-5	Х	-	239-802-2	Χ	-		Х	Х	KE-31512
ethylenetetraacetate										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA - Occupational Safety and Not applicable

Health Administration

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Ferrate(1-),	-	-	X	-	X
[[N,N'-1,2-ethanediylbis[N					
-(carboxymethyl)glycinato					
]](4-)-N,N',O					
,O',ON,ON']-, sodium,					
trihydrate, (OC-6-21)-					
Sodium iron(III)	-	-	X	-	X
ethylenetetraacetate					

U.S. Department of Transportation

Reportable Quantity (RQ): N
DOT Marine Pollutant N
DOT Severe Marine Pollutant N

U.S. Department of Homeland

This product does not contain any DHS chemicals.

Security

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization		REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-(carboxy methyl)glycinato]](4-)-N,N',O ,O',ON,ON']-, sodium, trihydrate, (OC-6-21)-	18154-32-0	-	-	-
Sodium iron(III) ethylenetetraacetate	15708-41-5	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-(car boxymethyl)glycinato]](4-)-N,N ',O ,O',ON,ON']-, sodium, trihydrate, (OC-6-21)-		Not applicable	Not applicable	Not applicable	Not applicable
Sodium iron(III) ethylenetetraacetate	15708-41-5	Listed	Not applicable	Not applicable	Not applicable

Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
Ferrate(1-), [[N,N'-1,2-ethanediylbis[N-(car boxymethyl)glycinato]](4-)-N,N ',O,O',ON,ON']-, sodium, trihydrate, (OC-6-21)-	18154-32-0	Not applicable	Not applicable	Not applicable	Not applicable
Sodium iron(III) ethylenetetraacetate	15708-41-5	Not applicable	Not applicable	Not applicable	Not applicable

b .	Other	Int	orm	าลเ	ion	

Prepared By Product stewardship (Regulatory Affairs)

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Revision Summary Updated to the U.S. Department of Labor's Occupational Safety and Health Administration

(OSHA) which published its Final Rule in the Federal Register revising the Hazard Communication Standard (HCS/HazCom), 29 CFR 1910.1200 (2024) (HCS §1910.1200,

2024), May 20, 2024, effective July 19, 2024.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

End of SDS