

SAFETY DATA SHEET

Creation Date 26-Sep-2009 Revision Date 25-Dec-2021 Revision Number 7

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 Use Laboratory 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-ACROS-01 / 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 under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements

Hazard Statements

Precautionary Statements
Hazards not otherwise classified (HNOC)

None identified

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

General Advice If symptoms persist, call a physician.

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

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

5. Fire-fighting measures

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

Unsuitable Extinguishing Media No information available

Flash Point No information available Method - No information available

Autoignition Temperature

Explosion Limits

No information available

Upper No data available
Lower 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

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 IDLH	Mexico OEL (TWA)
Ferrate(1-),	TWA: 1 mg/m ³	(Vacated) TWA: 1 mg/m ³	TWA: 1 mg/m ³	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	TWA: 1 mg/m ³	TWA: 1 mg/m ³
ethylenetetraacetate	_		_	_

Legend

ACGIH - American Conference of Governmental Industrial Hygienists

OSHA - Occupational Safety and Health Administration

NIOSH IDLH: 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.

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

9. Physical and chemical properties

Ethylenediaminetetraacetic acid, ferric sodium salt trihydrate

Physical StatePowder SolidAppearanceDark yellow

Odor
Odor Threshold
PH
No information available
No information available
No information available
No information available
No data available

Boiling Point/Range
No information available
Flash Point
No information available
No information available

Evaporation Rate Not applicable

Flammability (solid,gas) No information available

Flammability or explosive limits

UpperNo data availableLowerNo data availableVapor PressureNo information availableVapor DensityNot applicable

Specific Gravity
Solubility
No information available
Soluble in water

Partition coefficient; n-octanol/water

Autoignition Temperature

Decomposition Temperature

No data available
No information available
No information available

Viscosity Not applicable

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

Molecular Weight 421.1

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 (CO), Carbon dioxide (CO2), Heavy metal oxides

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous ReactionsNone under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component Information

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

Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

 Irritation
 No information available

 Sensitization
 No information available

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

The table below indicates whether each agency has noted any ingredient as a careful egon.

Ethylenediaminetetraacetic acid, ferric sodium salt trihydrate

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						

Mutagenic Effects No information available

Reproductive Effects No information available.

Developmental Effects No information available.

Teratogenicity No information available.

STOT - single exposure None known STOT - repeated exposure None known

Aspiration hazard No information available

Symptoms / effects,both acute and No information available

delayed

Endocrine Disruptor Information No information available

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

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 Ch

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					
DOT	Not regulated				
DOT TDG	Not regulated				
<u>IATA</u>	Not regulated				
IMDG/IMO	Not regulated				

15. Regulatory information

United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory

Ethylenediaminetetraacetic acid, ferric sodium salt trihydrate

			Active-Inactive	Flags
Ferrate(1-),	18154-32-0	=	-	-
[[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	X	ACTIVE	-
ethylenetetraacetate				

Legend:

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

X - Listed '-' - Not Listed

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).

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 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

CWA (Clean Water Act) Not applicable

Not applicable Clean Air Act

OSHA - Occupational Safety and

Health Administration

Not applicable

CERCLA Not applicable

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	-	Х
[[N,N'-1,2-ethanediylbis[N					
-(carboxymethyl)glycinato					
]](4-)-N,N',O					
,O',ON,ON']-, sodium,					
trihydrate, (OC-6-21)-					
Sodium iron(III)	-	-	X	-	Х

Ethylenediaminetetraacetic acid, ferric sodium salt trihydrate

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ethylenetetraacetate

U.S. Department of Transportation

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

U.S. Department of Homeland

Security

This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Authorisation/Restrictions according to EU REACH

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

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

16. Other information

Prepared By Regulatory Affairs

Thermo Fisher Scientific

Email: EMSDS.RA@thermofisher.com

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Revision Summary This document has been updated to comply with the US OSHA HazCom 2012 Standard

replacing the current legislation under 29 CFR 1910.1200 to align with the Globally

Harmonized System of Classification and Labeling of Chemicals (GHS).

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

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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