

# SAFETY DATA SHEET

Creation Date 01-Jun-2010

Revision Date 24-Dec-2021

**Revision Number** 4

1. Identification

Product Name

# Ethylenediaminetetraacetic acid, tetrasodium salt hydrate

Cat No. :

AC118440000; AC118440025; AC118440250; AC118445000

CAS No Synonyms

Sodium edetate; EDTA, tetrasodium salt

194491-31-1

Recommended Use Uses advised against

Laboratory chemicals. Food, drug, pesticide or biocidal product use.

#### Details of the supplier of the safety data sheet

<u>Company</u>

Fisher Scientific Company One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100 Acros Organics One Reagent Lane Fair Lawn, NJ 07410

**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

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute oral toxicity Acute Inhalation Toxicity - Dusts and Mists Serious Eye Damage/Eye Irritation Specific target organ toxicity (single exposure) Target Organs - Respiratory system. Category 4 Category 4 Category 1 Category 3

#### Label Elements

Signal Word Danger

Hazard Statements Causes serious eye damage May cause respiratory irritation Harmful if swallowed or if inhaled



#### Precautionary Statements Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Wear protective gloves/protective clothing/eye protection/face protection

#### Response

Call a POISON CENTER or doctor/physician if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Immediately call a POISON CENTER or doctor/physician

#### Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

### Rinse mouth

### Storage

Store in a well-ventilated place. Keep container tightly closed

# Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None identified

# 3. Composition/Information on Ingredients

Component	CAS No	Weight %
Ethylenediaminetetraacetic acid, tetrasodium salt	194491-31-1	>95
hydrate		
Tetrasodium EDTA	64-02-8	-

	4. First-aid measures
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention.
Inhalation	Remove to fresh air. Get medical attention. If not breathing, give artificial respiration.
Ingestion	Do NOT induce vomiting. Get medical attention.
Most important symptoms and effects	Causes eye burns. Causes severe eye damage.

Notes to Dhysisian					
Notes to Physician	Treat symptomatically				
	5. Fire-fighting	measures			
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.				
Unsuitable Extinguishing Media	No information available	No information available			
Flash Point Method -	No information available No information available				
Autoignition Temperature	No information available				
Explosion Limits Upper	No data available				
Lower	No data available				
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available				
Specific Hazards Arising from the C Keep product and empty container awa		nition.			
Hazardous Combustion Products Nitrogen oxides (NOx). Carbon monoxi Protective Equipment and Precautio As in any fire, wear self-contained brea protective gear.	ns for Firefighters		ed or equivalent) and full		
NFPA Health 2	Flammability 1	<b>Instability</b> 0	Physical hazards N/A		
	6. Accidental rele	ase measures			
Personal Precautions	Ensure adequate ventilation.		pment as required. Avoid dust		
Environmental Precautions	formation. Should not be released into t Information.	he environment. See Section	12 for additional Ecological		
Methods for Containment and Clean Up		itable containers for disposal.			
	7. Handling a	nd storage			
Handling		yes. Do not breathe dust. Do stance. Wear personal protec	not ingest. If swallowed then tive equipment/face protection.		
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Do not store in aluminum containers. Incompatible Materials. Strong oxidizing agents. Strong acids. Metals.				
8. Ex	posure controls /	personal protectio	on		
Exposure Guidelines	This product does not contai limitsestablished by the region	n any hazardous materials wit n specific regulatory bodies.	th occupational exposure		
		opposibility in confined organ	Ensure that evenesh stations		
Engineering Measures	and safety showers are close		Ensure that eyewash stations		

### 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 protection	Wear 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. Physic	al and chemical properties
Physical State	Solid
Appearance	White, Light yellow
Odor	No information available
Odor Threshold	No information available
pH	9.5-11 1% aq. solution
Melting Point/Range	> 300 °C / 572 °F
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	No information available
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	> 400°C
Viscosity	Not applicable
Molecular Formula	C10 H12 N2 Na4 O8 . x H2 O
Molecular Weight	380.16

# 10. Stability and reactivity

None known, based on information available	
mal conditions.	
ducts.	
agents, Strong acids, Metals	
(NOx), Carbon monoxide (CO), Carbon dioxide (CO2), Sodium oxides	
nerization does not occur.	
nal processing.	
r	

11. Toxicological information

# Acute Toxicity

Product Information Oral LD50 Component Informat	r		Category 4. ATE = 300 - 2000 mg/kg.					
Component		LD50 Oral	(= )	LD50 Dermal		Inhalation		
Tetrasodium ED		_D50 = 1780 - 2000 mg/kg	(Rat)	Not listed	N	ot listed		
Toxicologically Syne Products Delayed and immedi	-		No information available					
Irritation		Severe eye irritant	Irritating to res	piratory system				
Sensitization		No information ava	ailable					
Carcinogenicity		The table below in	dicates whethe	r each agency has lis	sted any ingredient	as a carcinogen.		
Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Ethylenediaminetetraa cetic acid, tetrasodium salt hydrate	194491-31-	1 Not listed	Not listed	Not listed	Not listed	Not listed		
Tetrasodium EDTA	64-02-8	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects Reproductive Effects Developmental Effect Teratogenicity STOT - single expos	ure	No information ava No information ava No information ava No information ava Respiratory system	ailable. ailable. ailable.					
STOT - repeated exp Aspiration hazard	osure		None known No information available					
Symptoms / effects, delayed	both acute a	and No information ava	ailable					
Endocrine Disruptor Information No information available		ailable						
Other Adverse Effects The toxicological properti		oroperties have	not been fully investi	gated.				

# 12. Ecological information

Ecotoxicity Do not empty into drains.

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea
Tetrasodium EDTA	EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus)		LC50: = 121 - 1592 mg/L, 96h static (Lepomis macrochirus)	Not listed	EC50: = 140mg/l, 48h (Daphnia magna)
Persistence and Degrada	ability	Soluble in wa	ater Persistence is unlikely	based on information avai	lable.
Bioaccumulation/ Accumulation No information		on available.			
Mobility Will likely be		mobile in the environment	due to its water solubility.		
	13. Disposal considerations				
Waste Disposal Methods Chemical was		ste generators must deterr	nine 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 IATA	Not regulated		
IATA_	Not regulated		
IMDG/IMO	Not regulated		
15. Regulatory information			

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
Ethylenediaminetetraacetic acid, tetrasodium salt hydrate	194491-31-1	-	-	-
Tetrasodium EDTA	64-02-8	Х	ACTIVE	-

#### Legend:

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

X - Listed '-' - Not Listed

TSCA 12(b) - Notices of Export Not applicable

#### 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
Ethylenediaminetetraacetic acid,	194491-31-1	-	-	-	-	-		-	-	-
tetrasodium salt hydrate										
Tetrasodium EDTA	64-02-8	Х	-	200-573-9	Х	Х	Х	Х	Х	KE-13654

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
Clean Air Act	Not applicable
<b>OSHA</b> - 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	Not applicable

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

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

Component	· · · · · ·	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	0 (
Tetrasodium EDTA	-	Use restricted. See item 75. (see link for restriction details)	-

https://echa.europa.eu/substances-restricted-under-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)
Ethylenediaminetetraacetic acid, tetrasodium salt hydrate	194491-31-1	Not applicable	Not applicable	Not applicable	Not applicable
Tetrasodium EDTA	64-02-8	Listed	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Seveso III Directive (2012/18/EC) - Qualifying Quantities	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
		for Major Accident Notification	for Safety Report Requirements		
Ethylenediaminetetraacetic acid, tetrasodium salt hydrate	194491-31-1	Not applicable	Not applicable	Not applicable	Not applicable
Tetrasodium EDTA	64-02-8	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	01-Jun-2010 24-Dec-2021 24-Dec-2021 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 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