

# SAFETY DATA SHEET

Creation Date 03-Sep-2009

Revision Date 24-Dec-2021

**Revision Number** 7

4/14/2025: File reviewed, more current MSDS/SDS not available. CAS

1. Identification		
Product Name	Ethylenediaminetetraacetic acid, disodium salt dihydrate	
Cat No. :	O2793-500; S312-12; S312-125LB; S312-212; S312-500; S312SAM-1; S312SAM-2; S312SAM-3	
CAS No Synonyms	6381-92-6 (Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Disodium edetate dihydrate; EDTA, disodium salt dihydrate (Crystalline/Electrophoresis/Reagent/Certified ACS/USP/FCC/EP/BP/JP/JustPURE™)	
Recommended Use Uses advised against	Laboratory chemicals. Food, drug, pesticide or biocidal product use.	

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

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

Emergency Telephone Number	CHEMTREC®, Inside the USA: 800-424-9300
	CHEMTREC®, Outside the USA: 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 Inhalation Toxicity - Dusts and Mists Specific target organ toxicity - (repeated exposure) Target Organs - Respiratory system. Category 4 Category 2

#### Label Elements

Signal Word Warning

Hazard Statements

#### Harmful if inhaled

May cause damage to organs through prolonged or repeated exposure



#### Precautionary Statements Prevention Use only outdoors or in a well-ventilated area Do not breathe dust/fume/gas/mist/vapors/spray Response

Get medical attention/advice if you feel unwell

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER or doctor/physician if you feel unwell **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, disodium salt	6381-92-6	>95
dihydrate		
Disodium EDTA	139-33-3	-

# 4. First-aid measures Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention if symptoms occur. Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Get medical attention if symptoms occur. Inhalation Remove to fresh air. Get medical attention if symptoms occur. If not breathing, give artificial respiration. Ingestion Do NOT induce vomiting. Get medical attention.

Most important symptoms and	No information available.
effects	

## 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 Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No information available No information available

#### **Specific Hazards Arising from the Chemical**

Thermal decomposition can lead to release of irritating gases and vapors.

#### **Hazardous Combustion Products**

Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## 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.

<u>NFPA</u>	Health 2	Flammability 1	<b>Instability</b> 0	Physical hazards N/A
	6. Accidental release measures			
Personal	Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.		
Environn	nental Precautions	Should not be released into the environment. See Section 12 for additional Ecological Information.		

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage		
Handling	Wear personal protective equipment/face protection. Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.		
Storage.	Keep containers tightly closed in a dry, cool and well-ventilated place. Incompatible Materials. Strong oxidizing agents.		
8. E	xposure controls / personal protection		
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.		
Engineering Measures	Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.		
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. Physical and chemical properties

Physical State
Appearance
Odor
Odor Threshold
рН
Melting Point/Range
Boiling Point/Range
Flash Point
Evaporation Rate
Flammability (solid,gas)
Flammability or explosive limits
Upper
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

Solid White Odorless No information available 4-6 5% aq. solution 252 °C / 485.6 °F No information available No information available Not applicable No information available

No data available No data available No information available No information available Soluble in water No data available No information available > 252°C Not applicable C10 H14 N2 Na2 O8 . 2 H2 O 372.23

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available	
Stability	Stable under normal conditions.	
Conditions to Avoid	Incompatible products. Excess heat. Avoid dust formation.	
Incompatible Materials	Strong oxidizing agents	
Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)		
Hazardous Polymerization	Hazardous polymerization does not occur.	
Hazardous Reactions	None under normal processing.	

# 11. Toxicological information

#### Acute Toxicity

# Product Information

Component information			
Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Disodium EDTA	LD50 > 2 g/kg (Rat)	Not listed	Not listed
Toxicologically Synergistic Products	No information available		
Delayed and immediate effects as well as chronic effects from short and long-term exposure			

Irritation No	information available
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Sensitization No information available

Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
Ethylenediaminetetraa	6381-92-6	Not listed	Not listed	Not listed	Not listed	Not listed			
cetic acid, disodium salt dihydrate									
Disodium EDTA	139-33-3	Not listed	Not listed	Not listed	Not listed	Not listed			
Mutagenic Effects		No information available							
Reproductive Effects		No information available.							
<b>Developmental Effe</b>	cts	No information available.							
Teratogenicity		No information available.							
STOT - single exposure STOT - repeated exposure		None known Respiratory system							
Aspiration hazard		No information available							
Symptoms / effects,both acute and delayed		No information available							
Endocrine Disruptor Information		No information available							
Other Adverse Effects		The toxicological properties have not been fully investigated.							

# 12. Ecological information

Ecotoxicity Do not empty into drains. .

Component	Freshwater Algae		Freshwater Fish	Microtox	Water Flea			
Disodium EDTA	Not listed		Leuciscus idus: LC50 > 500 mg/L 96h	EC50 = 56 mg/L 8 h	> 100 mg/L 24h			
Persistence and Degradability		Soluble in water Persistence is unlikely based on information available.						
<b>Bioaccumulation/Accumulation</b>		nformatio	on available.					
Mobility		Will likely be mobile in the environment due to its water solubility.						
		13. Di	sposal considera	ations				
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							
DOT	Not	Not regulated						
TDG		Not regulated						
<u>IATA</u>		Not regulated						
IMDG/IMO	Not	Not regulated						
		15. R	egulatory inform	ation				

#### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification -	TSCA - EPA Regulatory
			Active-Inactive	Flags
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	-	-	-
Disodium EDTA	139-33-3	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,	6381-92-6	Х	-	-	Х	-		Х	Х	-
disodium salt dihydrate										
Disodium EDTA	139-33-3	Х	-	205-358-3	Х	Х	Х	Х	Х	KE-13651

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
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N 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 accordin	ig to EU REACH

Not applicable

Not applicable

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

6381-92-6

139-33-3

03-Sep-2009

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	Not applicable	Not applicable	Not applicable	Not applicable
Disodium EDTA	139-33-3	Listed	Not applicable	Not applicable	Not applicable
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)

Prepared By

Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com

Not applicable

Not applicable

Creation Date Revision Date Print Date Revision Summary

Ethylenediaminetetraacetic

acid, disodium salt dihydrate Disodium EDTA

> 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).

Not applicable

Not applicable

Not applicable

Not applicable

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