

SAFETY DATA SHEET

Creation Date 03-Sep-2009

Revision Date 24-Dec-2021

Revision Number 6

1. Identification

Product Name	Ethylenediaminetetraacetic acid, disodium salt dihydrate			
Cat No. :	S311-10; S311-100; S311-3; S311-3LC; S311-500; S311-50KG			
CAS No Synonyms	6381-92-6 (Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Disodium edetate dihydrate; EDTA, disodium salt dihydrate			
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 dihydrate	6381-92-6	>95
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 effects	No information available.		
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	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.

Hazardous Combustion Products

Carbon monoxide (CO). Carbon dioxide (CO₂).

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

Health 2	Flammability 1	Instability 0	Physical hazards N/A	
	6. Accidental re	lease measures		
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.			
Environmental Precautions	Should not be released into Information.	o the environment. See Section	12 for additional Ecological	

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

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Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties			
Physical State	Solid		
Appearance	White		
Odor	Odorless		
Odor Threshold	No information available		
рН	4-6 5% aq. solution		
Melting Point/Range	252 °C / 485.6 °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	Soluble in water		
Partition coefficient; n-octanol/water	No data available		
Autoignition Temperature	No information available		
Decomposition Temperature	> 252°C		
Viscosity	Not applicable		
Molecular Formula	C10 H14 N2 Na2 O8 . 2 H2 O		
Molecular Weight	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 Produc	ts Carbon monoxide (CO), Carbon dioxide (CO ₂)
Hazardous Polymerization	Hazardous polymerization does not occur.
Hazardous Reactions	None under normal processing.

11. Toxicological information

Acute Toxicity

Product Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Disodium EDTA	LD50 > 2 g/kg (Rat)	Not listed	Not listed	
oxicologically Synergistic roducts	No information available			
a large all and the second late attacks	an small an alternation offers to farme alt			
elayed and immediate effects	as well as chronic effects from sh	hort and long-term exposu	re	
ritation	No information available	iort and long-term exposu	re	

Carcinogenicity

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

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico		
Ethylenediaminetetraa cetic acid, disodium	6381-92-6	Not listed	Not listed	Not listed	Not listed	Not listed		
salt dihydrate								
Disodium EDTA	139-33-3	Not listed	Not listed	Not listed	Not listed	Not listed		
Mutagenic Effects		No information ava	ailable					
Reproductive Effect	S	No information available.						
Developmental Effe	cts	No information available.						
Feratogenicity		No information available.						
STOT - single expos STOT - repeated exp		None known Respiratory system						
Aspiration hazard		No information available						
Symptoms / effects delayed	,both acute and	d No information available						
Endocrine Disruptor	ndocrine Disruptor Information No information available							
Other Adverse Effect	ts	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 Degradal	bility Soluble in	ity Soluble in water Persistence is unlikely based on information available.				
Bioaccumulation/ Accum	ulation No informa	tion No information available.				
Mobility	Will likely I	Will likely be mobile in the environment due to its water solubility.				
	13. [Disposal considera	itions			
Waste Disposal Methods	Methods Chemical waste generators must determine whether a discarded chemical is classified a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.					
	14.	Transport informa	ition			
DOT	Not regula	ted				
TDG	Not regula	ted				
ΙΑΤΑ	Not regula	ted				
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,	6381-92-6	-	-	-

disodium salt dihydrate				
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
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	Not applicable
U.S. Department of Transportation 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

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, 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)	
Ethylenediaminetetraacetic acid, disodium salt dihydrate	6381-92-6	Not applicable	Not applicable	Not applicable	Not applicable	
Disodium EDTA	139-33-3	Not applicable	Not applicable	Not applicable	Not applicable	

16. Other information

Prepared By

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Creation Date Revision Date Print Date Revision Summary 03-Sep-2009 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