

SAFETY DATA SHEET

Creation Date 03-September-2009

Revision Date 24-December-2021

Revision Number 7

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 Importer/Distributor Fisher Scientific 112 Colonnade Road, Ottawa, ON K2E 7L6, Canada Tel: 1-800-234-7437

Emergency Telephone Number

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

2. Hazard(s) identification

Classification

WHMIS 2015 Classification

Classified as hazardous under the Hazardous Products Regulations (SOR/2015-17)

Manufacturer

One Reagent Lane

Fair Lawn, NJ 07410

Tel: (201) 796-7100

Fisher Scientific Company

Acute Inhalation Toxicity 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

Do not breathe dust/fumes/gas/mist/vapours/spray Use only outdoors or in a well-ventilated area **Response** IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER/ doctor if you feel unwell **Disposal** Dispose of contents/container to an approved waste disposal plant

3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-,	6381-92-6	>95
disodium salt, 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/effects Notes to Physician	No information available. 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

NEDA

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.

Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions	Ensure adequate ventilatio formation.	n. Use personal protective equ	uipment as required. Avoid dust
Environmental Precautions	Should not be released into Information.	o the environment. See Section	n 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. Exposure controls / personal protection
Evene avera Quidalinaa	This product does not contain any bezerdeus materials with accurational evenesure

 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.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source

Personal protective equipment

Eye 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.		
Hand Protection	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Glove material Nitrile rubber Neoprene Natural rubber	Breakthrough time See manufacturers recommendations	Glove thickness	Glove comments Splash protection only

PVC

Butyl rubber

Inspect gloves before use. observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information) gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. gloves with care avoiding skin contamination.

Respiratory Protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. 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. To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly **Recommended Filter type:** Particulates filter conforming to EN 143

When RPE is used a face piece Fit Test should be conducted

Environmental exposure controls

No information available.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and after work.

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 Polymerization

Hazardous Decomposition Products Carbon monoxide (CO), Carbon dioxide (CO2)

Hazardous Reaction	IS	None under normal processing.				
		11. Toxico	ological info	ormation		
Acute Toxicity						
Product Information Component Informa						
Componen		LD50 Oral		LD50 Dermal	LC50	Inhalation
Disodium ED	ТА	LD50 > 2 g/kg (Rat)	Not listed	Nc	ot listed
Toxicologically Syn Products Delayed and immed	-	No information ava		nd long-term expo	osure	
Irritation		No information ava	ailable			
Sensitization		No information ava	ailable			
Carcinogenicity		The table below in	dicates whether e	ach agency has lis	ted any ingredient	as a carcinogen.
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Glycine, N,N-1,2-ethanediylbis[N-(carboxymethyl)-, disodium salt, dihydrate	6381-92-6	Not listed	Not listed	Not listed	Not listed	Not listed
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 ava	ailable.			
Developmental Effects		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		I No information available				
Endocrine Disruptor	r Information	No information available				
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.				
		12. Ecolo	ogical infor	mation		

Hazardous polymerization does not occur.

Ecotoxicity

Do not empty into drains. .

Component	Freshwater Algae	Freshwater Fish	Microtox	Water Flea
Disodium EDTA	Not listed	Leuciscus idus: LC50 > 500	EC50 = 56 mg/L 8 h	> 100 mg/L 24h
		mg/L 96h		

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.					
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				

	14. Transport information
DOT	Not regulated
DOT TDG	Not regulated
IATA	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

national hazardous waste regulations to ensure complete and accurate classification.

International Inventories

Component	CAS-No	DSL	NDSL	TSCA	TSCA Inventory notification - Active-Inactive	EINECS	ELINCS	NLP
Glycine, N,N-1,2-ethanediylbis[N-(carboxy methyl)-, disodium salt, dihydrate	6381-92-6	Х	-	-	-	-	-	-
Disodium EDTA	139-33-3	Х	-	Х	ACTIVE	205-358-3	-	-

Component	CAS-No	IECSC	KECL	ENCS	ISHL	TCSI	AICS	NZIoC	PICCS
Glycine,	6381-92-6	Х	-	-	-	Х	Х	Х	Х
N,N-1,2-ethanediylbis[N-(carboxy									
methyl)-, disodium salt, dihydrate									
Disodium EDTA	139-33-3	Х	KE-13651	Х	Х	Х	Х	Х	Х

Legend:

X - Listed '-' - Not Listed

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

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - Chinese Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

ENCS - Japanese Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

Canada

SDS in compliance with provisions of information as set out in Canadian Standard - Part 4, Schedule 1 and 2 of the Hazardous Products Regulations (HPR) and meets the requirements of the HPR (Paragraph 13(1)(a) of the Hazardous Products Act (HPA)).

Other International Regulations

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)
Glycine, N,N-1,2-ethanediylbis[N-(carb oxymethyl)-, 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)
Glycine, N,N-1,2-ethanediylbis[N-(carb oxymethyl)-, 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	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com
Creation Date Revision Date Print Date Revision Summary	03-September-2009 24-December-2021 24-December-2021 This document has been updated to comply with the requirements of WHMIS 2015 to align with the Globally Harmonised System (GHS) for the Classification and Labelling of Chemicals.

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