

SAFETY DATA SHEET

Creation Date 03-Sep-2009	Revision Date 24-May-2017	Revision Number 4
	1. Identification	
Product Name	Ethylenediaminetetraacetic acid, disodium	n salt dihydrate
Cat No. :	S316-12; S31612LC; S316-212; S316SAM-1	I; S316SAM-2; S316SAM-3
Synonyms	(Ethylenedinitrilo)tetraacetic acid, disodium salt dihydra EDTA, disodium salt dihydrate	te; Disodium edetate dihydrate;
Recommended Use Uses advised against	Laboratory chemicals. Not for food, drug, pesticide or biocidal product use	
Details of the supplier of the sa	fety data sheet	
Company Fisher Scientific 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	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.					
Ingestion	Do not induce vomiting. Obtain medical attention.					
Most important symptoms/effects Notes to Physician	No information available. Treat symptomatically					
	5. Fire-fighting measures					
Suitable Extinguishing Media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.					
Unsuitable Extinguishing Media	No information available					
Flash Point Method -	No information available No information available					
Autoignition Temperature 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 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 release measures							
Personal Precautions Environmental Precautions		 Use personal protective equip the environment. See Section 					
Methods for Containment and Clean Sweep up or vacuum up spillage and collect in suitable container for disposal. Avoid dust Up formation.							
	7. Handling a	and storage					
Handling		quipment. Ensure adequate ven gestion and inhalation. Avoid du	tilation. Avoid contact with skin, st formation.				
Storage	Keep containers tightly clos	ed in a dry, cool and well-ventil	ated place.				
8. Exposure controls / personal protection							
Exposure Guidelines		in any hazardous materials with ion specific regulatory bodies.	n occupational exposure				
Engineering Measures		ns and safety showers are close n, especially in confined areas.	e to the workstation location.				
Personal Protective Equipment							
Eye/face Protection		e eyeglasses or chemical safety ction regulations in 29 CFR 191					
Skin and body protection	Wear appropriate protective	e gloves and clothing to prevent	skin exposure.				
Respiratory Protection	EN 149. Use a NIOSH/MSH	regulations found in 29 CFR 19 A or European Standard EN 14 ed or if irritation or other sympto	19 approved respirator if				
Hygiene Measures	Handle in accordance with	good industrial hygiene and safe	ety practice.				

9. Physical and chemical properties					
Physical State	Solid				
Appearance	White				
Odor	Odorless				
Odor Threshold	No information available				
pH	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
Lower
Vapor Pressure
Vapor Density
Specific Gravity
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

No data available No data available No information available Not applicable No information available Soluble in water No data available

> 252°C Not applicable C10 H14 N2 Na2 O8 . 2 H2 O 372.23

10. Stability and reactivity

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

11. Toxicological information

Acute Toxicity

Componen	t	LD50 Oral LD50 Dermal LC5				50 Inhalation	
Disodium ED	ГА	LD50 > 2 g/kg (Rat)	Not listed	Not listed		
oxicologically Syno Products Delayed and immedi	-	No information ava		nd long-term expo	sure		
rritation		No information ava	ailable				
Sensitization		No information available					
Carcinogenicity		The table below in	dicates whether e	each agency has lis	ted any ingredient	as a carcinoge	
Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico	
	0001.00.0	Not listed	Not listed	Not listed	Not listed	Not listed	
Ethylenediaminetetraa cetic acid, disodium salt dihydrate	6381-92-6						
Ethylenediaminetetraa cetic acid, disodium	139-33-3	Not listed	Not listed	Not listed	Not listed	Not listed	
Ethylenediaminetetraa cetic acid, disodium salt dihydrate		Not listed No information ava		Not listed	Not listed	Not listed	

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	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	See actual entry in RTECS for complete information. 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.						
Bioaccumulation/ Accumulation No information available.						
Mobility	Mobility Will likely be mobile in the environment due to its water solubility.					
	13.	Disposal consideration	ations			
Waste Disposal Methods	hazardous	waste generators must deterr waste. Chemical waste gen azardous waste regulations to	erators must also consult l	ocal, regional, and		
14. Transport information						
DOT TDG	Not regula Not regula					

Not regulated 15. Regulatory information

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Ethylenediaminetetraacetic acid, disodium salt dihydrate		Х	-	-	-		Х	-	Х	Х	-
Disodium EDTA	Х	Х	-	205-358-3	-		Х	Х	Х	Х	Х

Legend:

ΙΑΤΑ

IMDG/IMO

X - Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

Not regulated

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater. Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

U.S. Federal Regulations

TSCA 12(b)	Not applicable	
SARA 313	Not applicable	
SARA 311/312 Hazard Categ Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Press Reactive Hazard	Yes Yes No	
CWA (Clean Water Act)	Not applicable	
Clean Air Act	Not applicable	
OSHA Occupational Safety an Not applicable	d Health Administration	
CERCLA Not applicable		
California Proposition 65	This product does not contain any Proposition 65 chemic	cals
U.S. State Right-to-Know Regulations	Not applicable	
U.S. Department of Transpo	tation	
Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N	
U.S. Department of Homelan This product does not contain		
Other International Regulation	ons	
Mexico - Grade	No information available	
	16. Other information	
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com	
Creation Date Revision Date Print Date Revision Summary	03-Sep-2009 24-May-2017 24-May-2017 This document has been updated to comply with the US replacing the current legislation under 29 CFR 1910.120 Harmonized System of Classification and Labeling of Ch	0 to align with the Globally

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

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

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