

Part of Thermo Fisher Scientific

SAFETY DATA SHEET

Creation Date 03-Sep-2009	Revision Date 25-Jul-2016	Revision Number 3
	1. Identification	
Product Name	Ethylenediaminetetraacetic acid, disodium sa	alt dihydrate
Cat No. :	BP120-1; BP120-500	
Synonyms	(Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Disodium edetate dihydrate; EDTA, disodium salt dihydrate	
Recommended Use	Laboratory chemicals.	
Uses advised against Details of the supplier of the safe	No Information available afety data sheet	
Company Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410	Emergency Telephone Number CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887	

2. Hazard(s) identification

Classification

Tel: (201) 796-7100

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 PointNo information availableMethod -No information available

Autoignition Temperature

 Explosion Limits
 No data 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

IFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A	
	6. Accidental rel	ease measures		
Personal Precautions Invironmental Precautions		Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation. Should not be released into the environment. See Section 12 for additional ecological information.		
<i>l</i> ethods for Containment an Jp	d Clean Sweep up or vacuum up sp formation.	billage and collect in suitable c	ontainer for disposal. Avoid dust	
	7. Handling a	and storage		
landling		Wear personal protective equipment. Ensure adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid ingestion and inhalation. Avoid dust formation.		
Storage	Keep containers tightly clos	sed in a dry, cool and well-ven	tilated place.	
	8. Exposure controls	<u> </u>		
Exposure Guidelines		ain any hazardous materials w jion 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 Equipme	ent_			
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	Wear appropriate protective gloves and clothing to prevent skin exposure.		
Respiratory Protection	EN 149. Use a NIOSH/MSI	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 s	afety practice.	

7. FIIY	sical 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
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.		
t		

11. Toxicological information

Acute Toxicity

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

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 cetic acid, 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 Effects No information available.

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	No information available
delayed 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 Degradab		Soluble in water Persistence is unlikely based on information available.			
Bioaccumulation/ Accumu	ulation No information	n available.			
Mobility Will likely be		mobile in the environment	due to its water solubility.		
	13. Di	sposal considera	ations		
hazardous w		ste generators must deterr aste. Chemical waste gen irdous waste regulations to	erators must also consult l	ocal, regional, and	
	14. T	ransport informa	ation		
DOT Not regulated					
TDG	Not regulated	1			

IMDG/IMO	Not regulated
ΙΑΤΑ	Not regulated
TDG	Not regulated
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15. Regulatory information

International Inventories

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

Legend: X - Listed

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

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.

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U.S. Federal Regulations							
TSCA 12(b)	Not applicable						
SARA 313	Not applicable						
SARA 311/312 Hazard Categories Acute Health Hazard Chronic Health Hazard Fire Hazard Sudden Release of Pressure Ha Reactive Hazard	azard	Yes Yes No No No					
CWA (Clean Water Act)	Not applicable						
Clean Air Act	Not applicable						
OSHA Occupational Safety and Heal Not applicable	th Administration						
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						
Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR							
WHMIS Hazard Class	D1B Toxic materials D2B Toxic materials						
)						
Prepared By	16. Other Regulatory Affairs	information					

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Creation Date Revision Date Print Date Revision Summary

25-Jul-2016 25-Jul-2016 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