

SAFETY DATA SHEET

Creation Date 03-Sep-2009	Revision Date 24-Nov-201	5 Revision Number 2					
	1. Identification	1					
Product Name	Ethylenediaminetetraacetic a	cid, disodium salt dihydrate					
Cat No. :	AC147850000; AC147850010; AC147855000	AC147850000; AC147850010; AC147850050; AC147851000; AC147855000					
Synonyms	(Ethylenedinitrilo)tetraacetic acid, disod EDTA, disodium salt dihydrate	(Ethylenedinitrilo)tetraacetic acid, disodium salt dihydrate; Disodium edetate dihydrate; EDTA, disodium salt dihydrate					
Recommended Use	Laboratory chemicals.	Laboratory chemicals.					
Uses advised against Details of the supplier of the sat							
CompanyEntity / Business NameEmergency Telephone NumberFisher ScientificAcros OrganicsFor information US call: 001-800One Reagent LaneOne Reagent Lane/ Europe call: +32 14 57 52 11							

Fair Lawn, NJ 07410 Tel: (201) 796-7100

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Emergency Number US:001-201-796-7100 / Europe: +32 14 57 52 99 CHEMTREC Tel. No.US:001-800-424-9300 / Europe: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	No information available					
Method -	No information available					
Autoignition Temperature						
Explosion Limits						
Upper	No data available					
Lower	No data available					
Sensitivity to Mechanical Impa	ct 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 diox Protective Equipment and Precaut	tions for Firefighters		
As in any fire, wear self-contained br protective gear.	eathing apparatus pressure-o	demand, MSHA/NIOSH (approv	ed or equivalent) and full
NFPA Health 2	Flammability 1	Instability 0	Physical hazards N/A
	6. Accidental re	lease measures	
Personal Precautions Environmental Precautions		on. Use personal protective equ to the environment. See Section	
Methods for Containment and Cle Up	an Sweep up or vacuum up s formation.	pillage and collect in suitable co	ontainer for disposal. Avoid dust
	7. Handling	and storage	
Handling	Wear personal protective		entilation. Avoid contact with skin, dust formation.
Storage	Keep containers tightly clo	esed in a dry, cool and well-vent	tilated place.
8. E	Exposure controls	/ personal protecti	on
Exposure Guidelines	This product does not con	tain any known or suspected re	eproductive hazards
Engineering Measures		ons and safety showers are clo on, especially in confined areas	
Personal Protective Equipment			
Eye/face Protection		ve eyeglasses or chemical safe ection regulations in 29 CFR 19	
Skin and body protection	Wear appropriate protectiv	ve gloves and clothing to prever	nt skin exposure.
Respiratory Protection	EN 149. Use a NIOSH/MS	or regulations found in 29 CFR SHA or European Standard EN ded or if irritation or other symp	
Hygiene Measures	Handle in accordance with	n good industrial hygiene and sa	afety practice.
	9. Physical and ch	nemical properties	

	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
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.			
ncompatible products. Excess heat. Avoid dust formation.			
rong oxidizing agents			
s Carbon monoxide (CO), Carbon dioxide (CO ₂)			
bus Polymerization 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	bility Soluble in wa	ater Persistence is unlikely	based on information avail	able.				
Bioaccumulation/Accumu	ulation No information	on 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 classifination hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification								
	14. T	ransport informa	ation					
DOT	Not regulated	ł						
DOT TDG	Not regulated	Not regulated						
	N I I I I I							

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

ΙΑΤΑ

IMDG/IMO

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.

Not regulated

Not regulated

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		
	Neterr	
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 H Reactive Hazard	azard	Yes Yes No No
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	
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 information Regulatory Affairs	

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03-Sep-2009

Creation Date Revision Date Print Date Revision Summary

24-Nov-2015 24-Nov-2015 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