

Safety Data Sheet

Ethylenedinitrillo Tetraacetic Acid, Free Acid (EDTA)



Section 1

Product Description

Product Name: Ethylenedinitrillo Tetraacetic Acid, Free Acid (EDTA)
Recommended Use: Science education applications
Synonyms: EDTA, Ethylenediamine Tetraacetic Acid
Supplier: C2A Sales & Supplies (Barbados) Ltd.
#3 Canewood Road, Jackson, St. Michael, Barbados
Tel: (246) 426-1256

Section 2

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Causes serious eye irritation.

GHS Classification:

Serious Eye Damage/Eye Irritation Category 2A

Section 3

Composition / Information on Ingredients

Chemical Name	CAS #	%
Ethylenedinitrillo Tetraacetic Acid, Free Acid (EDTA)	60-00-4	100

Section 4

First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5

Firefighting Procedures

Extinguishing Media:

Use media suitable to extinguish surrounding fire.

Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: None Known

Hazardous Combustion Products: Carbon dioxide, Carbon monoxide, Nitrogen oxides

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Section 6

Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be irritating or harmful. Follow personal protective equipment recommendations found in Section 8 of this SDS. Additional precautions may be necessary based on special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred. Also consider the expertise of employees in the area responding to the spill. Ventilate the contaminated area. Follow personal protective equipment recommendations found in Section 8 of this MSDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure. Avoid the generation of dusts during clean-up.

Methods for Clean-up

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Do not allow the spilled product to enter public drainage system or open waterways. Do not flush spill to drain.

Section 7

Handling and Storage

Handling:	Wash thoroughly after handling. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. Do not ingest or take internally. Avoid contact with skin and eyes. Do not breathe dust.
Storage:	Suitable for any general chemical storage.
Storage Code:	Green - general chemical storage

Section 8

Protection Information

Chemical Name	<u>ACGIH</u> (TWA)	<u>OSHA PEL</u> (TWA)	<u>OSHA PEL</u> (STEL)
No data available			
Control Parameters			
Engineering Measures:	No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.		
Personal Protective Equipment (PPE):	Lab coat, apron, eye wash, safety shower.		
Respiratory Protection:	No respiratory protection required under normal conditions of use.		
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.		
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.		
Gloves:	No information available		

Section 9

Physical Data

Formula: C10H16N2O8	Vapor Pressure: N/A
Molecular Weight: 292.25	Evaporation Rate (BuAc=1): N/A
Appearance: White Powder	Vapor Density (Air=1): N/A
Odor: No data available	Specific Gravity: 0.9
Odor Threshold: No data available	Solubility in Water: Slightly Soluble
pH: 2.5 at 10 g/l at 23 °C	Log Pow (calculated): -0.836
Melting Point: 240 C	Autoignition Temperature: > 200 C
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: N/A	Percent Volatile by Volume: 0%

Section 10

Reactivity Data

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Reactivity:	No data available
Chemical Stability:	Stable under normal conditions.
Conditions to Avoid:	None known.
Incompatible Materials:	Strong oxidizing agents
Hazardous Decomposition Products:	Nitrogen oxides, Carbon dioxide, Carbon monoxide
Hazardous Polymerization:	Will not occur

Section 11

Toxicity Data

Routes of Entry	Ingestion, Skin contact.			
Symptoms (Acute):	Cardiovascular system, Musculoskeletal system			
Delayed Effects:	No data available			
Acute Toxicity:				
Chemical Name	CAS Number	Oral LD50	Dermal LD50	Inhalation LC50
Ethylenedinitrillo Tetraacetic Acid, Free Acid (EDTA)	60-00-4	Oral LD50 Rat 4500 mg/kg	Not determined	Not determined
Carcinogenicity:				
Chemical Name	CAS Number	IARC	NTP	OSHA
No data available				
Chronic Effects:				
Mutagenicity:	No evidence of a mutagenic effect.			
Teratogenicity:	No evidence of a teratogenic effect (birth defect).			
Sensitization:	No evidence of a sensitization effect.			
Reproductive:	No evidence of negative reproductive effects.			
Target Organ Effects:				
Acute:	See Section 2			
Chronic:	To the best of our knowledge, the toxicological properties of this mixture have not been thoroughly evaluated.			

Section 12

Ecological Data

Overview:	This material is not expected to be harmful to the ecology.			
Mobility:	No data			
Persistence:	No data			
Bioaccumulation:	No data			
Degradability:	No data			
Other Adverse Effects:	No data			
Chemical Name	CAS Number	Eco Toxicity		
Ethylenedinitrillo Tetraacetic Acid, Free Acid (EDTA)	60-00-4	96 HR LC50 LEPOMIS MACROCHIRUS 34 - 62 MG/L [STATIC]		
		96 HR LC50 PIMEPHALES PROMELAS 44.2 - 76.5 MG/L [STATIC]		
		48 HR EC50 DAPHNIA MAGNA 113 MG/L [STATIC]		
		72 HR EC50 DESMOIDES SUBSPICATUS 1.01 MG/L		

Section 13

Disposal Information

Disposal Methods:	Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance.
Waste Disposal Code(s):	Not Determined

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Section 14

Transport Information

Ground - DOT Proper Shipping Name:

UN number: 3077 Class: 9 Packing group: III Proper shipping name: Environmentally hazardous substance, solid, n.o.s. (Edetic acid) Reportable Quantity (RQ): 5000 lbs Marine pollutant: No Poison Inhalation Hazard: No

Air - IATA Proper Shipping Name:

Not regulated for air transport by IATA.

Section 15

Regulatory Information

TSCA Status:

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Ethylenedinitrillo Tetraacetic Acid, Free Acid (EDTA)	60-00-4	No	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	No	No

California Prop 65:

No California Proposition 65 ingredients

Section 16

Additional Information

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. C2A Sales & Supplies (Barbados) makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental Industrial Hygienists	NTP	National Toxicology Program
CAS	Chemical Abstract Service Number	OSHA	Occupational Safety and Health Administration
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act	PEL	Permissible Exposure Limit
DOT	U.S. Department of Transportation	ppm	Parts per million
IARC	International Agency for Research on Cancer	RCRA	Resource Conservation and Recovery Act
N/A	Not Available	SARA	Superfund Amendments and Reauthorization Act
		TLV	Threshold Limit Value
		TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health