

Safety Data Sheet

SECTION 1 - General Information and Chemical Product Identification

Product Name: Acid EDTA

CAS #: 60-00-4

Chemical Name: Ethylenediaminetetraacetic Acid

Product Code: EDTA00

Application/Uses/ Restrictions: Chealating agent used in pulp & paper, cleaning, chemical processing, agriculture and water treatment

Distributor Information: Chemical Store Inc. 1059 Main Avenue, Clifton, NJ 07011, USA
Email: info@ChemicalStore.com

Phone: (973) 405-6248

Emergency phone #: +1 (973) 420-4972

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Eye Irritant - 2

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P264: Wash hands thoroughly after handling

P280: Wear protective gloves/protective clothing/eye protection/face protection

Physical Hazards

None

P305+351+338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

Hazard Statement

H319: Causes serious eye irritation

P337+313: If eye irritation persists get medical advice/attention

OSHA Defined Hazards

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910, 1200.

HNOC - Hazards Not Otherwise Classified

No other hazards classified

Signal Word Warning

Pictogram



SECTION 3 Composition/information On Ingredients

Molecular Weight: 292.25

Chemical FORMULA: C₁₀H₁₆O₈N₂

CAS#:	Common Name/Synonyms:	% by Wt.
60-00-4	Ethylenediaminetetraacetic Acid	99%
139-13-9	Nitrioltriacetic acid	.001%

SECTION 4 - First Aid Information**Description of first aid measures****General Advice:**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If Inhaled:

Get medical attention immediately. Remove to fresh air immediately. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration.

In Case Of Skin Contact:

Get immediate medical attention. Flush with soap and water for a minimum of 15 minutes. Remove contaminated clothing and shoes. Wash clothing and footwear before reuse and discard which cannot be cleaned.

In Case Of Eye Contact:

Flush eyes with large quantities of running water for a minimum of 15 minutes. If present and easy to do, remove contact lenses. Hold eyelids apart during the flushing to ensure rinsing of entire surface of the eye and lids with water. DO NOT let victim rub eye(s). Do not attempt to neutralize with chemical agents. Oils/ointments should not be used at this time. Get medical attention if eye irritation occurs.

If Swallowed:

If patient is conscious, give plenty of water to drink. Do NOT INDUCE VOMITING. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Get immediate medical attention.

Most important symptoms and effects, both acute and delayed:

Eyes: Tearing, stinging, redness

Skin: Stinging, redness, some swelling possible

Respiratory: Coughing, soreness in respiratory tract, chest tightness, difficulty breathing.

Indication of any immediate medical attention and special treatment needed:

If skin irritation or rash occurs, get medical advice/attention.

SECTION 5 - Fire And Explosion Data**Suitable Extinguishing Media:**

Carbon dioxide, dry chemical, foam, water.

UnSuitable Extinguishing Media:

Not available.

Specific Hazards arising from the chemical:

Emits toxic fumes under fire conditions. Carbon oxides, nitrogen oxides (NOx)

Special protective equipment and precautions for fire-fighters:

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing.

No additional specialized equipment should be required.

Fire-fighting equipment/instructions

As in any fire, prevent human exposure to fire, smoke, fumes or products of combustion. Evacuate nonessential personnel from the fire area.

Specific Methods

No additional information.

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Evacuate area of nonessential personnel. Ventilate area. Remove all sources of ignition. Ventilate area of leak or spill. Use protective equipment & respiratory protection.

Environmental Precautions:

Contain liquid spills using a barrier of inert material such as sand or by diking the area. Prevent spilled product or contaminated wash water from entering drinking water supplies or streams. Contain spilled materials and transfer to secure container.

Methods and Materials for Containment and Clean Up:

Absorb spilled liquids using an inert material. Scoop or shovel absorbed material or spilled solids into containers. Avoid creating a dust during transfer of solids. Dispose of according to local, state and federal requirements.

Section 7- Handling and Storage

Precautions for safe handling:

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

Conditions for safe storage:

Keep container tightly closed in a dry and well-ventilated place.
Keep in a dry place.

Incompatibilities:

Avoid contact with oxidizing materials. Avoid contact with metals such as carbon steel.

Section 8 - Exposure Control and Personal Protection

Occupational Exposure Limits:

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Ethylenediaminetetraacetic Acid	60-00-4	None	None	ACGIH Threshold Limit Values	None
Nitritotriacetic acid	139-13-9			ACGIH Threshold Limit Values	None
				ACGIH Threshold Limit Values	

Exposure Limits and Appropriate Engineering Controls:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. The following limits (ACGIH, OSHA and other) apply to this material, where, if indicated, S=skin and C=ceiling limit:
ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED : 10 mg/cubic meter(INHALABLES)

Individual Protection Measures, (Personal Protective Equipment):

Eye Protection

Eye/face protection requirements vary depending upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be used for the particular use intended for this material. Use chemical safety glasses with side shields or splash proof goggles and face shield to prevent eye/face contact. Emergency eye wash must be readily accessible to work area.

Skin Protection

Wear Neoprene, natural rubber, butyl rubber or polyvinyl chloride gloves. Skin contact with this product should be minimized through the use of suitable protective clothing and gloves selected with regard for use condition exposure potential. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Other Protection:

Wear appropriate equipment to prevent probability of exposure and personal contact. Deluge safety shower and eye wash should be located near work area. Do not let product enter drains.

Respiratory Protection

When respirators required, use NIOSH/MSHA approved equipment based on actual/potential airborne concentration and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations. Under dangerous conditions, use full-face positive pressure air-supplied respirator equipped with emergency escape air supply unit or a self-contained breathing apparatus unit.

Ventilation Limits:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation.

Hygienic Practices:

All food and smoking materials should be kept in a separate area away from the storage/use location. Eating, drinking and smoking should be prohibited in areas where there is a potential for significant exposure to this material. Before eating, drinking or smoking, hands and face should be thoroughly washed. Deluge safety shower and eye wash should be located near work area.

Section 9 - Physical and Chemical Properties

Appearance And Odor: White odorless crystalline

pH: 2.8 - 3.0

Melting Point: Melting point/range: 250 °C (482 °F)

Flammable Limits: N/A

Freezing Point: No data available

UEL: N/A

Boiling Point: No data available

LEL: No data available

Flash Point: No data available

Vapor Pressure(mm/hg): N/A

Evaporation Rate: No data available

Vapor Density(air=1): N/A

Solubilities: Insoluble

Autoignition Temp: >400°C

Specific Gravity: (AT 25° C) 0.67

Decomposition Temp: No data available

Bulk Density: 1.46 g/cm3 at 20 °C (68 °F)

Reactivity In Water: N/A

Other Information: No data available

Viscosity: No data available

Section 10 - Stability and Reactivity

Chemical Stability and Reactivity:

Stable under recommended storage conditions. No information available on Reactivity.

Possible Hazardous Reactions:

No data available

Conditions to Avoid:

No data available

Incompatible Materials:

Avoid contact with oxidizing materials. Avoid contact with metals such as carbon steel.

Hazardous Decomposition Products:

Burning may produce Oxides of Carbon, Nitrogen or Sulfur.

Section 11- Toxicological Information

Information On The Likely Routes Of Exposure: Inhalation, Ingestion and Dermal.

Symptoms Related To The Physical, Chemical And Toxicological Effects:

Inhalation Effects:

Not evaluated/No data available

Skin Effects:

(Rabbits) not an irritant

Dermal Toxicity:

Not evaluated/No data available

Eye Effects:

(Rabbits) Irritant

Ingestion Effects:

LD50 Oral - rat - male and female - 4,500 mg/kg

Sensitization:

Not a sensitizer

Carcinogenicity/Mutagenicity:

Nitrotriacetic acid (NTA) and its salts were determined to be "possibly carcinogenic to humans" (Group 2B), by the IARC and a compound which "may reasonably be anticipated to be a carcinogen" by the NTP.

Reproductive Effects:

Limited data in laboratory animals suggests that the material does not affect reproduction.

Neurotoxicity:

Not available.

Target Organs:

Not available.

Additional Toxicological Information:

None

Section 12- Ecological Information

Ecotoxicity: Bluegill LC50 = 135 mg/l (96 Hour)

Degradability: Not evaluated

Bioaccumulative potential: No data available

Mobility in the Soil: No data available

Additional Adverse effect on environment:

The environmental impact of this product has not been fully investigated.

SECTION 13 - Disposal Considerations

Disposal Instructions and Regulations:

Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.

Hazardous Waste Code: Not Considered a hazardous waste

Container Disposal Information:

Be advised that state/local requirements for container disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state/local regulations regarding the proper disposal of container.

Section 14 - Transport Information

US DOT, IATA, IMO, ADR:

Proper Shipping Name: Ethylenediamine Tetraacetic Acid (E.D.T.A.)

D. O. T. Hazard Class: Not Regulated By D.O.T.

UN #: None

Label Requirement: None

RQ: 5,000 lbs.

Placard: None

CAS: 60-00-4

Packing Group: N/A

ERG Book Information: 171

Environment Hazards: No

Marine Pollutant: No

Special Precautions: No

IATA: Not regulated as dangerous goods.

Section 15 - Regulatory Information

US Federal - OSHA Status:

This product is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910, 1200.

TSCA Status:

Listed/Reportable

U.S. SARA Reporting Requirements:

SARA Title III Hazard Classes Section 302 - EXTREMELY HAZARDOUS SUBSTANCES:

This product does NOT contain ingredients listed in Appendix A and B as Extremely Hazardous substances.

SARA Title III Hazard Classes Sections 311/312:

Immediate (acute) health hazard

SARA Section 313 Toxic Chemicals:

This product contains the following toxic chemical subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act:

CAS# **Chemical Name:**

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels.

SARA Superfund Section 110:

N/A

CERCLA, 40 CFR 117, 302:

This product does not contain ingredients specified in the List of Extremely Hazardous Substances.

CERCLA listed substances are:

Ethylenediamine tetraacetic Acid RQ 5000lbs

Other Federal Reporting Requirements:

CAA: This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act
CWA: No chemicals in product are listed a Hazardous Substances, Priority Pollutants or Toxic Pollutants under the CWA.
RCRA: Not considered a hazardous waste.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
60-00-4	NJ, PA, MA, CA	Ethylenediaminetetraacetic acid

CALIFORNIA PROPOSITION 65:

This product does NOT contain a chemical or chemicals subject to California Proposition 65.

Michigan Critical Materials:

This product does not contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

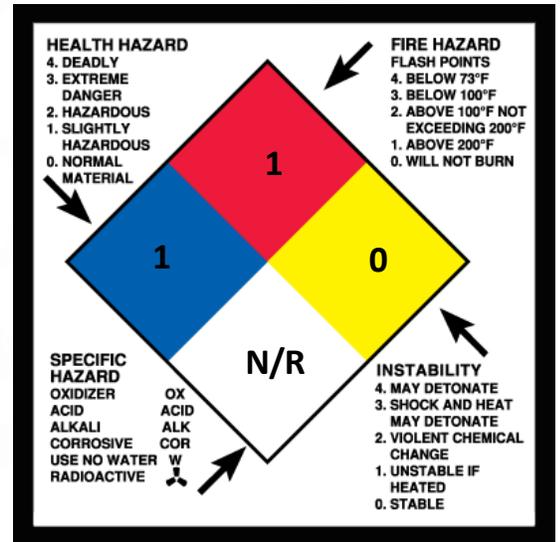
Canada CEPA: No components are listed on the Canadian DSL
Canada WHMIS: Uncontrolled product according to WHMIS classification criteria

SECTION 16 - Other Information

Full contact: Material: Nitrile rubber Minimum layer thickness: 0.11 mm
 Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact Material: Nitrile rubber Minimum layer thickness: 0.11 mm
 Break through time: 480 min Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

4-13-15 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -



Date of last revision:

6/15/2023

Acid EDTA
SAFETY DATA SHEET

NOTICE: OSHA STANDARD 29 CFR 1910.1200 requires that information be provided to employees regarding the hazards of chemicals by means of a Hazard Communication Program including training, labeling, Material Safety Data Sheets, and access to written records. We request that you, and it is your legal duty, make all information in this Material Safety Data Sheet available to your employees.

Key Legend Information:

N/Ap:	Not Applicable	ND:	Not Determined
N/R:	Not Rated	NDA:	No Data Available
ACGI:	American Conference of Govr'ntal Industrial Hygienists	TLV:	Threshold Limit Value
OSHA:	Occupational Safety and Health Administration	TWA:	Time Weighted Average
PEL:	Permissible Exposure Limit	NTP:	National Toxicology Program
STEL:	Short Term Exposure Limit	TSCA:	Toxic Substance Control Act
IARC:	International Agency for Research on Cancer	CERCLA:	Comprehensive Response, Compensation and Liability Act
SARA Title III:	Superfund Amendments and Reauthorization Act	CWA:	Clean Water Act
CAA:	Clean Air Act		
RCRA:	Resource Conservation Recovery Act		
IATA:	International Air Transport Association Shipping Info.	IMO:	International Maritime Organization Shipping Info.
DSL:	Domestic Substance List (Canada)	WHMIS:	Workplace Hazardous Materials Information System

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind expressed or implied is made with respect to the information contained herein. This Safety Data Sheet was prepared to comply with OSHA Hazard Communication standard. (29 CFR 1910.1200 HazCom 2012). This supersedes any previous information. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by the supplier as to the effects of such use or the results to be obtained, nor does the supplier assume any liability arising out of use, by others, of the products referred to herein. Nor is the information herein to be construed as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist because of applicable laws or government regulations. Please check the Review Date on Page 1 for most current version. The latest version of this SDS will be made available on our website when ready.