

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Edetate Acid - Ethylene Diamine Tetracetic Acid
Commercial Name EDTA
Product Use For laboratory research purposes.
Restrictions On Use Not for drug or household use.
Product Code 30-1431
Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: OSHA Haz Com: CFR 1910.1200: Eye Damage/Irritation [Category 2B] Toxic to Reproduction [Category 2]
CFR 1910.1200 Specific Target Organ Toxicity (Repeated Exposure) [Category 1] Aquatic Hazard (Acute) [Category 2]
Aquatic Hazard (Long -Term) [Category 2]
Signal Word DANGER
Hazard Statement(s) Causes eye irritation. Suspected of damaging fertility or the unborn child. Toxic to aquatic life. Toxic to aquatic life with long lasting effects. Causes damage to organs: Kidney through prolonged or repeated exposure.

Pictogram(s) or Symbol(s)**Precautionary Statement(s):**

Prevention Wash hands and face thoroughly after handling. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and face protection. Do not breathe dusts or mists. Do not eat, drink or smoke when using this product.

Response 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 or attention. If exposed: Call a poison center or doctor. Get medical advice or attention if you feel unwell.

Storage Store locked up.

Disposal Dispose of contents and container in accordance with US EPA guidelines for the classification and determination of hazardous waste listed in 40 CFR 261.3.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Ethylene Diamine Tetracetic Acid
% By Weight 100
CAS# 60-00-4
Molecular Weight 292.25 g/mole
Chemical Formula C₁₀H₁₆N₂O₈
Synonym(s) (Ethylenedinitrilo)tetracetic Acid , EDTA

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
			Not available.	

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Section 4: First-Aid Measures

Inhalation	Call emergency medical service. Effects of exposure (inhalation) to substance may be delayed. Inhalation of vapors or contact with substance will result in contamination and potential harmful effects. Move victim to fresh air. Give artificial respiration if victim is not breathing. Administer oxygen if breathing is difficult. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Skin Contact	Call a poison center or doctor if you feel unwell. Effects of exposure (skin contact) to substance may be delayed. Remove and wash contaminated clothing before re-use. In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Eye Contact	Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Contact with material may irritate or burn eyes. Call emergency medical service. Move victim to fresh air. Check for and remove any contact lenses. Keep victim warm and quiet. Treat symptomatically and supportively. Effects of exposure to any substance may be delayed. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Ingestion	Do NOT induce vomiting without medical advice. Effects of exposure (ingestion) to substance may be delayed. If swallowed, seek medical advice immediately and show container or label. Loosen tight clothing such as collar, tie, belt, or waistband. If a person vomits place them in the recovery position so that vomit will not reenter the mouth and throat. Rinse mouth. Keep victim warm and quiet. Treat symptomatically and supportively. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Symptoms/Effects	
Acute	Redness.
Delayed	No data available.

Immediate Medical Attention

Immediate medical attention: CAUTION: Victim may be a source of contamination. If breathing has stopped, perform artificial respiration. Use first aid treatment according to the nature of the injury. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Dry chemical, CO₂, water spray, or alcohol-resistant foam. Consult with local fire authorities before attempting large scale fire fighting operations.

Unsuitable Extinguishing Media

Do not use water jet.

Products of Combustion

These products are carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂...).

Firefighters Special Equipment and Precautions

Special precautions for fire-fighters: Use water spray or fog; do not use straight streams. Dike fire-control water for later disposal; do not scatter the material. Containers may explode when heated. Move containers from fire area if you can do it without risk.

Special protective equipment for fire-fighters: Wear positive pressure self-contained breathing apparatus (SCBA). Structural fire fighters' protective clothing provides limited protection in fire situations ONLY; it may not be effective in spill situations. Wear chemical protective clothing which is specifically recommended by the manufacturer. It may provide little or no thermal protection.

Section 6: Accidental Release Measures

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Emergency procedures: Prevent dust cloud. Do not clean-up or dispose except under supervision of a specialist. In case of a spill and/or a leak, always shut off any sources of ignition, ventilate the area, and exercise caution. Do not touch damaged containers or spill material unless wearing appropriate protective clothing. Warn personnel to move away. Prevent entry into sewers, basements, or confined areas; dike if needed. Methods and materials for containment and cleaning up: ELIMINATE all ignition sources (no smoking, flares, sparks, or flames in immediate area). Stop leak if without risk. Absorb with an inert material and put the spilled material in an appropriate waste disposal container. Use clean non-sparking tools to collect absorbed material. Dike far ahead of spill; use dry sand to contain the flow of material. Ventilate the area. Environmental precautions: Keep away from living quarters. Environmental hazard. Do not let product enter drains. Prevent further leakage or spillage if safe to do so. Water runoff can cause environmental damage. Prevent entry into sewers, basements, or confined areas; dike if needed.

Section 7: Handling and Storage

Handling: Avoid inhalation of vapor or mist. Manipulate under an adequate fume hood. Avoid contact with skin and eyes. Avoid contact - obtain special instructions before use. Avoid prolonged or repeated exposure. Normal measures for preventive fire protection. Good general ventilation should be sufficient to control airborne levels. Keep container dry. Handle and open container with care. Wear suitable protective clothing, gloves, and eye/face protection. When using do not eat, drink, or smoke. Keep away from sources of ignition. Storage: Store locked up. Keep containers tightly closed in a cool, well-ventilated place. Keep away from incompatibles. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Avoid prolonged storage periods. Store away from oxidizing agents.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Handle only in a fully enclosed system and equipment. Good general ventilation should be sufficient to control airborne levels. Ventilation is normally required when handling or using this product. Eyewash fountains should be provided in areas where there is any possibility that workers could be exposed to the substance. Follow safe industrial engineering/laboratory practices when handling any chemical.
Personal Protection	Dust respirator. Be sure to use a NSHA/NIOSH approved respirator or equivalent. Wear protective gloves. Safety glasses. Wear protective clothing (chemical resistant suit and chemical resistant boots).

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Section 9: Physical and Chemical Properties

Appearance	White/ Almost white solid. (crystal powder.)		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	Decomposition temperature:	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	-1.97	Evaporation Rate	Not available.
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not available.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Water: insoluble (0.05g/100 mL); Soluable: Sodium hydroxide solution. Insoluble: Many organic solvents.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	The product is stable under recommended storage conditions
Hazardous Polymerization	Will not occur
Conditions to Avoid	Excess heat and light.
Incompatible Materials	Oxidizing agents.
Hazardous Decomposition Products	Not available.

Section 11: Toxicological Information
RTECS AH4025000

Acute Toxicity

Acute oral toxicity (LD50): 30 mg/kg [Mouse]. ivn - mus LD50: 28500 ug/kg ipr - mus LD50: 250 mg/kg ipr - rat LD50: 397 mg/kg
 May cause adverse reproductive effects (fertility and fetotoxicity) and birth defects based on animal data. May affect genetic material based on animal data. Acute Potential Health Effects: Skin: Can cause skin irritation. Eyes: Can cause eye irritation. Inhalation: Can irritate the nose, throat/respiratory tract, and mucous membranes. Ingestion: May cause gastrointestinal tract irritation. May affect behavior.

Skin Corrosion/Irritation

Not available.

Serious Eye Damage/Irritation

Not available.

Respiratory or Skin Sensitization

Not available.

Germ Cell Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive Toxicity

Not available

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Routes of Entry

Inhalation. Eye contact. Ingestion. Skin contact.

Symptoms Related to Exposure

Eye contact may result in redness or pain. Overexposure may result in serious illness or death.

Potential Health Effects

May be harmful if inhaled or ingested. Overexposure may result in serious illness or death.

Target Organ(s)

Causes damage to organs: Kidney through prolonged or repeated exposure.

Section 12: Ecological Information**Ecotoxicity**Ecotoxicity: Fish: 48h LC50:163 mg/L (*Oryzias latipes*). Bioaccumulative potential (BCF): 2.7 - 12 (conc.2 mg/L), 27 - 123 (conc.0.2 mg/L). Partition coefficient: -1.97**Persistence and Degradability**

0% (by TOC), 0% (by UV -VIS)

Bioaccumulative Potential

2.7 - 12 (conc.2 mg/L), 27 - 123 (conc.0.2 mg/L)

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations**Waste Disposal**

Recycle to process if possible. It is the generator's responsibility to comply with Federal, State, and Local rule and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil. Observe all federal, state, and local regulations when disposing of the substance.

Disposal of Container

Dispose of as unused product. Do not re-use empty containers.

Other Considerations

Not available.

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

Toxic Substance Control Act (TSCA 8b.): This product is ON the EPA Toxic Substances Control Act (TSCA) inventory. US Federal Regulations CERCLA Hazardous substance and reportable quantity: SARA 313: Not listed SARA 302: Not listed. State Regulations State Right-to-Know Massachusetts: Not listed New Jersey: Listed Pennsylvania: Not listed California Proposition 65: Not listed. International Inventories WHMIS Hazard Class: D2B: Materials causing other toxic effects (Toxic). EC-No: 200-449-4

Other

NFPA Rating. Health: 2 Flammability: 0 Instability: 0 HMIS Classification. Health: 2 Flammability: 0 Physical: 0

Section 16: Other Information

Not available.