



## Safety Data Sheet

### EDTA

#### SECTION 1: Identification

##### 1.1 GHS Product identifier

Product name EDTA

##### 1.2 Other means of identification

3,6-Diazaoctanedioic acid, 3,6-bis(carboxymethyl); Acetic acid, (Ethylenedinitrilo)tetraacetic acid; EDTA; Edetic acid; Diaminoethanetetraacetic acid

##### 1.3 Recommended use of the chemical and restrictions on use

For laboratory and manufacturing use only.

##### 1.4 Supplier's details

Name High Purity Products  
Address 14546 N. Lombard Street  
Portland OR 97203  
United States of America

Telephone 503-227-1616  
email help.desk@highpp.com

##### 1.5 Emergency phone number

CHEMTREC: 1-800-424-9300

#### SECTION 2: Hazard identification

##### 2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, oral, Cat. 4
- Acute toxicity, inhalation, Cat. 4
- Eye damage/irritation, Cat. 2A
- Skin corrosion/irritation, Cat. 2
- Specific target organ toxicity (repeated exposure), Cat. 2

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### 2.2 GHS label elements, including precautionary statements

#### Pictogram



#### Signal word

**Danger**

#### Hazard statement(s)

H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H373	May cause damage to organs (respiratory system) through repeated exposure (inhalation)

#### Precautionary statement(s)

P260	Do not breathe dust.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P301+P312	IF SWALLOWED: Call POISON CENTER /doctor if you feel unwell.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P312	Call a POISON CENTER if you feel unwell.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

Components	CAS #	Percent (weight)
Ethylenediamine Tetra acetic Acid	60-00-4	100%

## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
In case of skin contact	Wash with plenty of water for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Take off contaminated clothing and wash it before reuse.
In case of eye contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention/advice.

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If swallowed

Rinse mouth. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a poison center or doctor if you feel unwell.

SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Specific hazards arising from the chemical  
No data available.
- 5.3 Special protective actions for fire-fighters  
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.
- 6.2 Environmental precautions  
Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up  
Sweep up from floor.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Avoid contact with skin and eyes. Avoid inhalation of dust.
- 7.2 Conditions for safe storage, including any incompatibilities  
Keep container tightly closed in a dry and well-ventilated place.

SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters

Components	CAS #	NIOSH REL TWA
Ethylenediamine Tetra acetic Acid	60-00-4	No Limit

- 8.2 Appropriate engineering controls  
Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.
- 8.3 Individual protection measures, such as personal protective equipment (PPE)



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### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US).

### Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH.

## SECTION 9: Physical and chemical properties and safety characteristics

Physical state	Solid
Appearance	White powder
Color	white
Odor	No odor
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	220 °C
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	0.00975 mmHg at 20 °C
Relative vapor density	No data available.
Density and/or relative density	0.86
Solubility	Slightly miscible
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	200 °C
Decomposition temperature	> 150 °C
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

### Particle characteristics

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None under normal use conditions.

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, sunlight, incompatibles, sources of ignition.

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### 10.5 Incompatible materials

Strong oxidizing agents, Strong bases, Metals, copper

### 10.6 Hazardous decomposition products

Nitrogen oxides (NO<sub>x</sub>), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

Ethylenediamine Tetra acetic Acid:  
LD50 – oral – mouse – 400 mg/kg

#### Skin corrosion/irritation

May cause skin irritation.

#### Serious eye damage/irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

No data available.

#### Germ cell mutagenicity

Ethylenediamine Tetraacetic Acid investigated as a mutagen, reproductive effector.

#### Carcinogenicity

No data available.

#### Reproductive toxicity

No data available.

#### STOT-single exposure

No data available.

#### STOT-repeated exposure

Damage to the respiratory system through inhalation exposure

#### Aspiration hazard

No data available

## SECTION 12: Ecological information

### Toxicity

EDTA:

EC50: = 1.01 mg/L, 72h (Desmodesmus subspicatus)

LC50: 34 - 62 mg/L, 96h static (Lepomis macrochirus)

LC50: 44.2 - 76.5 mg/L, 96h static (Pimephalespromelas)

### Persistence and degradability

Soluble in water Persistence is unlikely based on information available.

### Bioaccumulative potential

No data available.

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**Mobility in soil**  
Will likely be mobile in the environment due to its water solubility.

SECTION 13: Disposal considerations

**Product disposal**  
Waste material must be disposed of in accordance with the national and local regulations.  
Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

SECTION 14: Transport information

**DOT (US)**  
Not subject to DOT regulation

**IMDG**  
Not subject to DOT regulation

**IATA**  
Not subject to DOT regulation

SECTION 15: Regulatory information

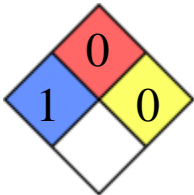
15.1 Safety, health and environmental regulations specific for the product in question

**CERCLA RQ Hazardous Substances**  
Ethylenediamine Tetra acetic Acid: 5,000 lbs

**HMIS Rating**

EDTA	
HEALTH	1
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

**NFPA Rating**



SECTION 16: Other information

**Disclaimer:**

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