

# Safety Data Sheet

Classified According to Canada Hazardous Product Regulations SOR/2015-17 (HPR 2022)

## SECTION 1: Identification

### 1.1. Product Identifier

**Trade Name or Designation** EDTA, 0.0500 Molar in 6 Normal Ammonium Hydroxide

**Product Number** 2679

**Other Identifying Product Numbers** 2679-1

### 1.2. Recommended Use and Restrictions on Use

General Laboratory Reagent

### 1.3. Details of the Supplier of the Safety Data Sheet

**Company** Ricca Chemical Company

**Address** 412 West Fork Drive

Arlington, TX 76012 USA

**Telephone** 888-467-4222

### 1.4. Emergency Telephone Number (24 hours)

CHEMTREC (USA) 800-424-9300

CHEMTREC (International) 1+ 703-527-3887

### 1.5. Distributor Address

Ricca Chemical Company

412 West Fork Drive

Arlington, TX 76012 USA

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## SECTION 2: Hazard Identification

### 2.1. Classification of the Hazardous Product

Hazard Class	Category	Hazard Statements	Precautionary Statements
Skin Corrosion / Irritation	Category 1	H314	P260,P264,P280,P301+P330+P331, P303+P361+P353,P363,P304+P340, P310,P321,P305+P351+P338,P405, P501
Serious Eye Damage / Eye Irritation	Category 1	H318	P280,P305+P351+P338,P310
Hazardous to the Aquatic Environment, Short-term (Acute)	Acute 2	H401	P273,P501

### 2.2. GHS Label Elements

#### Pictograms:



Signal Word: **Danger**

#### Hazard Statements:

NOTE: Hazard statements may be combined on labels to improve clarity and readability.

Hazard Number	Hazard Statement
H314	Causes severe skin burns and eye damage
H401	Toxic to aquatic life

#### Precautionary Statements:

NOTE: Precautionary statements may be combined or consolidated on labels to improve clarity and readability.

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## Prevention

Precautionary Number	Precautionary Statement
P260	Do not breathe fumes or mist.
P264	Wash hands, arms, and face thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves and eye protection.

## Response

Precautionary Number	Precautionary Statement
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a poison center or doctor.
P363	Wash contaminated clothing before reuse.

## Storage

Precautionary Number	Precautionary Statement
P405	Store locked up.

## Disposal

Precautionary Number	Precautionary Statement
P501	Dispose of contents/container to suitable waste stream in accordance with local, state, federal, and international regulations.

## 2.3. Hazards not Otherwise Classified

Causes severe damage to the respiratory tract

## 2.4. Ingredients of Unknown Acute Toxicity

12.6 percent of this mixture consists of ingredient(s) of unknown acute oral and dermal toxicity. 1.9 percent of this mixture consists of ingredient(s) of unknown acute inhalation toxicity.

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## SECTION 3: Composition / Information on Ingredients

### 3.1. Components of Mixture

Chemical Name (IUPAC)	Common Name and Synonyms	CAS Number	Weight%
water	Water	7732-18-5	87.36
ammonium hydroxide	Ammonium Hydroxide; Aqueous ammonia	1336-21-6	10.69
disodium 2-[2-[bis(carboxymethyl)amino]ethyl-(carboxylatomethyl)amino]acetate dihydrate	Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	1.94

## SECTION 4: First-Aid Measures

### 4.1. Description of Necessary First-Aid Measures

**Eye Contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. May cause severe irritation with possible permanent damage.

**Ingestion:** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

**Inhalation:** IF INHALED: Remove person to fresh air and keep comfortable for breathing.

**Skin Contact:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. May cause serious damage to the skin. Effects may include redness, pain, skin burns.

### 4.2. Most Important Symptoms and Effects, Acute and Delayed

Causes severe skin burns and eye damage This item is corrosive. May be fatal if swallowed or inhaled. Mist and vapor cause burns to every area of contact. Use with adequate ventilation. Avoid contact with skin, eyes or clothing. Wash areas of contact with plenty of water immediately. For eyes, get medical attention. EYE CONTACT: May cause severe irritation with possible permanent damage. SKIN CONTACT: May cause serious damage to the skin. Effects may include redness, pain, skin burns.

### 4.3. Immediate Medical Attention or Special Treatment Needed

Immediately call a poison center or doctor. Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops. Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen. Flush with plenty of water for at least 15 minutes. Call a physician if irritation develops. Do not induce vomiting. Give large quantity of water. Call a physician immediately.

## SECTION 5: Fire-Fighting Measures

### 5.1. Extinguishing Media

Use any means suitable for extinguishing surrounding fire. Use water spray to blanket fire, cool fire exposed containers, and to flush non-ignited spills or vapors away from fire.

### 5.2. Specific Hazards Arising from the Substance or Mixture in a Fire

Flammable vapors may accumulate in confined spaces.

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## 5.3. Special Protective Equipment and Precautions for Firefighters

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

Wear protective gloves and eye protection.

### 6.2. Cleanup and Containment Methods and Materials

Ventilate area of leak or spill. Cover spill with a 1:1:1 mixture by weight of Sodium Carbonate or Calcium Carbonate, clay and sand. Scoop mixture into a plastic container and, in the fume hood, add to a pail of cold water. Neutralize this mixture with 5% Hydrochloric Acid, let stand overnight, then pour the liquid into the drain while flushing with water. Dispose of any solid with normal refuse. Wash the area of the spill with plenty of water.

## SECTION 7: Handling and Storage

### 7.1. Precautions for Safe Handling and Storage Conditions

Store locked up. As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes and skin. Protect from freezing and physical damage. Store below 25°C. Empty containers may be hazardous since they retain product residues.

## SECTION 8: Exposure Controls / Personal Protection

### 8.1. Exposure Limits

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## U.S. OSHA - Permissible Exposure Limits (PEL) - Time Weighted Averages (TWA)

Chemical Name	CAS Number	Exposure Limit
Ammonium Hydroxide	1336-21-6	"50 ppm TWA; 35 mg/m3 TWA" As Ammonia [7664-41-7]

## U.S. OSHA - Permissible Exposure Limits (PEL) - Ceiling Limits

No limits found.

## U.S. OSHA - Permissible Exposure Limits (PEL) - Short Term Exposure Limits (STEL)

No limits found.

## U.S. OSHA - Specifically Regulated Chemicals

No limits found.

## ACGIH - Threshold Limit Values - Ceilings (TLV-C)

No limits found.

## ACGIH - Threshold Limit Values - Short Term Exposure Limits (TLV-STEL)

Chemical Name	CAS Number	Exposure Limit
Ammonium Hydroxide	1336-21-6	"35 ppm STEL" As Ammonia [7664-41-7]

## ACGIH - Threshold Limit Values - Time Weighted Averages (TLV-TWA)

Chemical Name	CAS Number	Exposure Limit
Ammonium Hydroxide	1336-21-6	"25 ppm TWA" As Ammonia [7664-41-7]

## 8.2. Engineering Controls

A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limit.

## 8.3. Individual Protective Measures and Personal Protective Equipment

**Respiratory Protection:** If the TLV is exceeded, a full-face chemical cartridge respirator may be worn up to 50 times the TLV or the maximum use concentration specified by the respirator supplier, whichever is less.

**Skin Protection:** Chemical resistant gloves.

**Eye Protection:** Safety glasses or goggles.

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## SECTION 9: Physical and Chemical Properties

### 9.1. Physical and Chemical Properties

<b>Physical State:</b>	liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Data not available.
<b>Odor Threshold:</b>	Data not available.
<b>Melting/Freezing Point:</b>	Approximately 0°C
<b>Boiling Point/Range:</b>	Approximately 36°C
<b>Flammability:</b>	Data not available.
<b>Flammability/Explosive Limits:</b>	Data not available.
<b>Flash Point:</b>	Not flammable
<b>Auto-Ignition Temperature:</b>	Data not available.
<b>Decomposition Temperature:</b>	Data not available.
<b>pH:</b>	11
<b>Kinematic Viscosity:</b>	Data not available.
<b>Solubility:</b>	miscible
<b>Vapor Pressure:</b>	Data not available.
<b>Evaporation Rate:</b>	Data not available.
<b>Relative Density:</b>	0.96
<b>Relative Vapor Density:</b>	Data not available.
<b>Particle Characteristics:</b>	Data not available.
<b>Partition Coefficient n-octanol/water, log</b>	Data not available.

## SECTION 10: Stability and Reactivity

### 10.1. Reactivity and Chemical Stability

Stable under normal conditions of use and storage.

### 10.2. Possibility of Hazardous Reactions

Data not available.

### 10.3. Conditions to Avoid and Incompatible Materials

Strong oxidizers, acids, Calcium Hypochlorite bleaches, gold, mercury, silver, halogens.

### 10.4. Hazardous Decomposition Products

Will not occur.

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## SECTION 11: Toxicological Information

### 11.1. Information on Toxicological Effects

**Acute Toxicity - Oral Exposure:**

No information found.

**Acute Toxicity - Dermal Exposure:**

No information found.

**Acute Toxicity - Inhalation Exposure:**

Inhalation acute toxicity estimate (ATE, vapor): 28.0636 mg/L, 4 h(calculated)

Chemical Name	CAS Number	Toxicity
Ammonium Hydroxide	1336-21-6	Inhalation LC50 Acute Toxicity Estimate 3 mg/L 4 h (Source: ECHA)

### 11.2 Carcinogenicity:

**International Agency for Research on Cancer (IARC)**

Chemical Name	CAS Number	Classification
		No data found.

**National Toxicology Program (NTP)**

Chemical Name	CAS Number	Classification
		No data found.

**U.S. OSHA specifically regulated carcinogens**

Chemical Name	CAS Number	Classification
		No data found.

### 11.3 Additional Toxicology Information:

Causes severe damage to the respiratory tract. Causes severe skin burns and eye damage.

## SECTION 12: Ecological Information

### 12.1. Ecotoxicity

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Chemical Name	CAS Number	Species	Exposure	Toxicity
Ammonium Hydroxide	1336-21-6	Freshwater Fish	Acute	LC50 96 h Pimephales promelas 8.2 mg/L
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	Freshwater Fish	Acute	"LC50 96 h Poecilia reticulata 320 mg/L [semi-static] (IUCRID)" As Disodium EDTA [139-33-3]
Ammonium Hydroxide	1336-21-6	Water Flea	Acute	EC50 48 h water flea 0.66 mg/L; EC50 48 h Daphnia pulex 0.66 mg/L

## 12.2. Persistence and Degradability

Data not available.

## 12.3. Bioaccumulative Potential

Data not available.

## 12.4. Mobility in soil

Data not available.

## 12.5. Other Adverse Ecological Effects

Data not available.

## SECTION 13: Disposal Considerations

### 13.1. Waste Treatment Methods

Data not available.

## SECTION 14: Transportation Information

### 14.1 Transportation by Land - Department of Transportation (DOT, United States of America)

**Sizes:** 4 L

**UN Number:** UN2672

**Proper Shipping Name:** Ammonia Solution

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**



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### 14.2 Transportation by Air - International Air Transport Association (IATA)

**Sizes:** 4 L

**UN Number:** UN2672

**Proper Shipping Name:** Ammonia Solution

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**



### 14.3 Transportation of Dangerous Goods (TDG, Canada)

**Sizes:** 4 L

**UN Number:** UN2672

**Proper Shipping Name:** AMMONIA SOLUTION

**Hazard Class:** 8

**Packing Group:** III

**Hazard Label(s):**



## SECTION 15: Regulatory Information

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## 15.01. Occupational Safety and Health Administration (OSHA) Hazards

Chemical Name	CAS Number	Regulatory Information
		No data found.

## 15.02. Superfund Amendments and Reauthorization Act (SARA) 302 Extremely Hazardous Substances

Chemical Name	CAS Number	RQ	TPQ
Ammonium Hydroxide	1336-21-6	"500 lb TPQ" As Ammonia [7664-41-7]	"100 lb EPCRA RQ" As Ammonia [7664-41-7]

## 15.03. Superfund Amendments and Reauthorization Act (SARA) 311/312 Hazardous Chemicals

Chemical Name	CAS Number	Regulatory Information
Ammonium Hydroxide	1336-21-6	1000 lb final RQ; 454 kg final RQ

## 15.04. Superfund Amendments and Reauthorization Act (SARA) 313 Toxics Release Inventory (TRI)

Chemical Name	CAS Number	List	Regulatory Information
Ammonium Hydroxide	1336-21-6	Emission Reporting	"1.0 % de minimis concentration (includes anhydrous Ammonia and aqueous Ammonia from water dissociable Ammonium salts and other sources, 10% of total aqueous Ammonia is reportable under this listing)" As Ammonia [7664-41-7]; "1.0 % de minimis concentration (10% of total aqueous Ammonia is reportable under this listing)" As Aqueous ammonia from water dissociable ammonium salts and other sources [RR-47925-4]

## 15.05. Massachusetts Right-to-Know Substance List

Chemical Name	CAS Number	Regulatory Information
Ammonium Hydroxide	1336-21-6	Present

## 15.06. Pennsylvania Right-to-Know Hazardous Substances

Chemical Name	CAS Number	Regulatory Information
Ammonium Hydroxide	1336-21-6	Environmental hazard

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## 15.07. New Jersey Worker and Community Right-to-Know Components

Chemical Name	CAS Number	Regulatory Information
Ammonium Hydroxide	1336-21-6	sn 0103

## 15.08. California Proposition 65

Chemical Name	CAS Number	Regulatory Information
No data found.		

## 15.09. Canada Domestic Substances List / Non-Domestic Substances List (DSL/NDSL)

Chemical Name	CAS Number	List	Status
Ammonium Hydroxide	1336-21-6	DSL	Present
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	DSL	Present
Water	7732-18-5	DSL	Present

## 15.10. United States of America Toxic Substances Control Act (TSCA) List

Chemical Name	CAS Number	Status
Ammonium Hydroxide	1336-21-6	Present (ACTIVE)
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	"Present (ACTIVE)" As Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:2) [139-33-3]; "Present (ACTIVE)" As Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt (1:?) [7379-28-4]
Water	7732-18-5	Present [XU] (ACTIVE)

## 15.11. European Inventory of Existing Commercial Chemical Substances (EINECS), European List of Notified Chemical Substances (ELINCS), and No Longer Polymers (NLP)

Chemical Name	CAS Number	List	Number
Ammonium Hydroxide	1336-21-6	EINECS	215-647-6
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	EINECS	"205-358-3" As Disodium dihydrogen ethylenediaminetetraacetate [139-33-3]; "230-944-0" As Sodium N,N'-ethane-1,2-diybis[N-(carboxymethyl)glycinate [7379-28-4]
Water	7732-18-5	EINECS	231-791-2

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### 15.12. China - Inventory of Existing chemical Substances (IECSC)

Chemical Name	CAS Number	Status
Ammonium Hydroxide	1336-21-6	Present [27662]
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	Present [38165]
Water	7732-18-5	Present [32224]

### 15.13. Korea - Existing Chemicals Inventory (KECI/KECL)

Chemical Name	CAS Number	List	Status
Ammonium Hydroxide	1336-21-6	Annex 1	Present [KE-01688]
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	Annex 1	"Present [KE-13651]" As Disodium EDTA [139-33-3]; "Present [KE-13188]" As Glycine, N,N'-1,2-ethanediybis[N-(carboxymethyl)-, sodium salt [7379-28-4]; "Present [KE-13660]" As (Ethylenedinitrilo)tetraacetic acid salts [RR-14063-6]
Water	7732-18-5	Annex 1	Present [KE-35400]

### 15.14. Japan - Existing and New Chemical Substances Inventory (ENCS)

Chemical Name	CAS Number	MITI No.
Ammonium Hydroxide	1336-21-6	(1)-314
Ethylenediaminetetraacetic Acid (EDTA), Disodium Salt, Dihydrate	6381-92-6	(2)-1265 (not considered as a new chemical substance)
Water	7732-18-5	- (listed on Japanese Pharmacopoeia 8th Edition)

## SECTION 16: Other Information

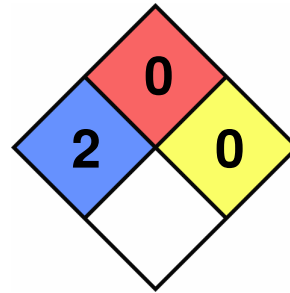


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### 16.1 National Fire Protection Associate (NFPA) Rating

**Health:** 2  
**Flammability:** 0  
**Reactivity:** 0  
**Special Hazard:**



### 16.2 Document Revision

**Last Revision Date:**  
2026-05-04

## DISCLAIMER

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and RICCA CHEMICAL COMPANY assumes no legal responsibility or liability whatsoever resulting from its use.