

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **Na₄EDTA** CAS #: **13236-36-4**

Chemical Name: Tetrasodium Ethylenediaminetetraacetic Acid, Tetrahydrate

Application/Uses/ Chelating agent, sequestering agent

Restrictions No stated restrictions

Distributor Information Level 7 Chemical
255 Sturgis Rd, Conway, AR 72034
(855) 927-1777

Emergency phone #: **CHEMTREC - Day or Night - at 800 424 9300**

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Eye irritation (Category 2A), H319
Oral toxicity (Category 4)

Physical Hazards

Hazard Statement

H319: Causes serious eye irritation

OSHA Defined Hazards

This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910,1200.

HNOC - Hazards Not Otherwise Classified

No other hazards classified



Irritant

Signal Word

Warning

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P101: If medical advice is needed, have product container or label at hand

P233: Keep container tightly closed

P264: Wash skin thoroughly after handling

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

P305+351+338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing, Immediately Call a POISON CENTER or doctor/physician

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

P281: Use personal protective equipment as required

P301+312 +P330: IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell, Rinse mouth

SECTION 3 Composition/information On Ingredients

Molecular Weight: **452.2**

Chemical FORMULA: **C₁₀H₁₂N₂Na₄O₈**

CAS#:	Common Name/Synonyms:	% by Wt.
13236-36-4	Tetrasodium Ethylenediaminetetraacetic Acid	99%
7732-18-5	Water	0.0097%

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:

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

In Case Of Skin Contact:

Immediately wash with soap and water for a minimum of 15 minutes. Wash clothing before reuse and discard footwear which cannot be cleaned. Get immediate medical attention if irritation occurs.

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 victim is conscious and alert, give 2-3 glasses of water to drink and do not induce vomiting. **Never give anything to eat or drink to someone who is unconscious, having convulsions, or unable to swallow.** Seek medical attention if health effects occur. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.

Most important symptoms and effects, both acute and delayed:

ACUTE: At high dust concentrations, irritation of eyes, skin, nose and upper respiratory tract by chemical or mechanical action may occur.

Skin: May cause irritation **Eye:** Irritation and possible damage, Redness **Inhalation:** Dust may cause irritation of respiratory tract and symptoms of bronchitis may result. **Ingestion:** May result in irritation of mouth, throat and stomach **CHRONIC:** None Found

Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. No additional information.

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

This product is noncombustible. If involved in a fire, extinguishing media suitable for surrounding materials should be used. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media:

None specified

Specific Hazards arising from the chemical:

Carbon oxides, nitrogen oxides (NO_x)

Special protective equipment and precautions for fire-fighters:

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

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. Do NOT allow fire fighting water to reach waterways, drains or sewers. Store fire fighting water for treatment.

Specific Methods

Standard procedure for chemical fires.

Section 6 - Accidental Release Measures**Personal precautions, protective equipment and emergency procedures:**

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Avoid breathing dust. For personal protection see section 8.

Environmental Precautions:

Consult with environmental regulatory agencies for acceptable procedures of disposal. Do not let product enter drains.

Methods and Materials for Containment and Clean Up:

Stop source of spill. Sweep up spilled solid material, being careful not to create dust. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal.

Section 7- Handling and Storage**Precautions for safe handling:**

Caution: May cause eye and skin irritation. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. For industrial use only. Keep containers tightly closed. Avoid dust generation. Keep away from aluminum, carbon steel, zinc, nickel, copper or their alloys. Handle as a 1 to 2 % caustic solution. Store between 0° and 120°F

Conditions for safe storage:

Keep container tightly closed, store in cool, dry and well ventilated place. Material is hygroscopic, protect from humidity.

Incompatibilities:

This product is incompatible with strong oxidizers. Product is hygroscopic.

Section 8 - Exposure Control and Personal Protection**Occupational Exposure Limits:**

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
Tetrasodium Ethylenediaminetetraacetic	13236-36-4	none	none	ACGIH Threshold Limit Values	none
Water	7732-18-5	none	none	ACGIH Threshold Limit Values	none
				ACGIH Threshold Limit Values	

Exposure Limits and Appropriate Engineering Controls:

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 : 15 mg/cubic meter (INHALABLES)

ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED: 5 mg/cubic meter (RESPIRABLE) 10mg/m³ total dust containing no asbestos and <1% crystalline silica for PNOG.

Individual Protection Measures, (Personal Protective Equipment):**Eye Protection**

Eye/face protection requirements vary depending upon work environment conditions and handling practices. Appropriate ANSI Z87 approved equipment should be used. 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.

Other Protection:

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. Remove contaminated clothing; launder before reuse. Cleanse skin thoroughly after contact, before meals and end of work period.

Respiratory Protection

Select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the latest OSHA standard (29 CFR 1910.134) and/or ANSI Z88.2 recommendations. For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Ventilation Limits:

Recommended to keep dust levels at acceptable limits.

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.

Section 9 - Physical and Chemical Properties

Appearance And Odor: White, free-flowing granular, odorless

pH:

Melting Point: 250 °C (482 °F) - dec.

Freezing Point: No data available

Boiling Point: No data available

Flash Point: No data available

Evaporation Rate: No data available

Solubilities: 103g/100g @ 25 degrees

Specific Gravity: 45 lbs./cu.ft.

Bulk Density: No data available

Other Information: No data available

Flammable Limits: No data available

UEL: No data available

LEL: $\geq 40\text{g/m}_3$

Vapor Pressure(mm/hg): 0.01

Vapor Density(air=1): No data available

Autoignition Temp: > 392°F / > 200°C (glowing temp. 5 mm product)

Decomposition Temp: No data available

Reactivity In Water: Soluble

Viscosity: No data available

Section 10 - Stability and Reactivity**Chemical Stability and Reactivity:**

This product is stable at ambient temperatures and atmospheric pressures. It is not self-reactive and is not sensitive to physical impact.

Possible Hazardous Reactions:

No data available

Conditions to Avoid:

Stable under normal storage and use conditions

Incompatible Materials:

This product is incompatible with strong oxidizers. Product is hygroscopic.

Hazardous Decomposition Products:

Carbon dioxide (CO) and nitrogen oxides, Ammonia

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:

Inhalation toxicity data is not available. Chronic inhalation exposure effects are not known.

Skin Effects:

Chronic dermal exposure effects for this product are not known.

Dermal Toxicity:

Dermal toxicity data is not available. However, it is not considered to be irritating based on tests with chemically similar products.

Eye Effects:

(Rabbits) not an irritant. It is expected that this product would be minimally irritating to eyes based on tests with similar products.

Ingestion Effects:

Chronic ingestion effects of this product are not known.
the oral LD50 for rat is 1780mg/kg

Sensitization:

Not expected to be a skin sensitizer based on tests with a similar product (Disodium EDTA).

Carcinogenicity/Mutagenicity:

Not listed as a carcinogen by IARC, NTP, OSHA. No data available for mutagenicity

Reproductive Effects:

EDTA and its sodium salts have been reported, in some studies, to cause birth defects in laboratory animals only at exaggerated doses that were toxic to the mother. These effects are likely associated with zinc deficiency due to chelation. Exposures having no effect on the mother should have no effect on the fetus.

Neurotoxicity:

The neurotoxic effects of this product are not known.

Target Organs:

Target organ effects of this material are not available.

Additional Toxicological Information:

LC 50 greater than 100 mg/l in most sensitive species. Practically nontoxic to aquatic organisms on an acute basis.

Section 12- Ecological Information

Ecotoxicity: Bluegill LC50 > 410 mg/l (96 HR), Practically nontoxic to aquatic organisms.

Degradability: Not evaluated

Bioaccumulative potential: Lepomis macrochirus - 28 d - 80 µg/l / Bioconcentration factor (BCF): 1.8

Mobility in the Soil: No data available

Additional Adverse effect on environment:

Daphnia magna 48h EC50 = 140 mg/L ; 21-day NOEC = 25 mg/L

May be harmful to aquatic organisms due to the shift of the pH. Avoid release to the environment.

SECTION 13 - Disposal Considerations**Disposal Instructions and Regulations:**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. Dispose in accordance with all local, state and federal regulations. In unused condition, this product is not considered to be a RCRA defined hazardous waste by characteristics/listings. It is the responsibility of the waste generator to evaluate whether this wastes are hazardous by characteristic/listing.

Hazardous Waste Code: Not a hazardous waste under RCRA (40 CFR 261)

Container Disposal Information:

Containers should be cleaned of residual product before disposal. Empty containers should be disposed of in accordance with all applicable laws and regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

Section 14 - Transport Information**US DOT, IATA, IMO, ADR:**

Proper Shipping Name: EDTA Tetrasodium Salt

D. O. T. Hazard Class: Not regulated by D.O.T.

UN #: None

Label Requirement: None

RQ: 5000

Placard: None

CAS: 13236-36-4

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 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:

This product does NOT contain ingredients listed as hazardous substances on the Priority List of CERCLA Hazardous substances.

CERCLA, 40 CFR 117, 302:

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

CERCLA listed substances are:

Ethylendiamine 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 a hazardous waste under RCRA (40 CFR 261)

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
	None	

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.

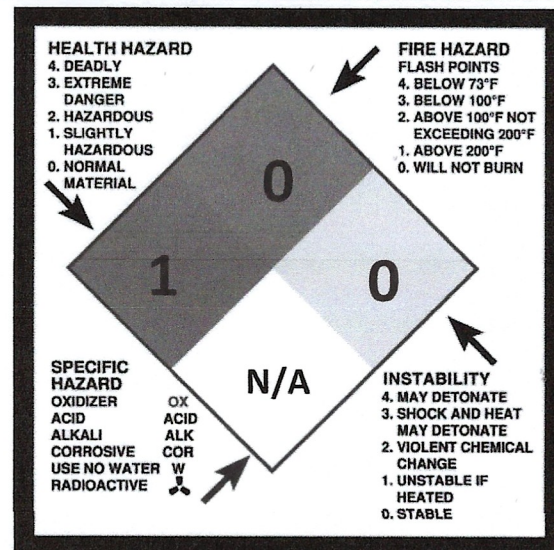
Global Lists/International Inventories:

Canada CEPA: All components are listed on the Canadian DSL

Canada WHMIS: Not a Controlled product

SECTION 16 - Other Information

Updated 4/22/15 to GHS standards.



Date of last revision:

5-8-2015

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 Gov'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	IMO:	International Maritime Organization Shipping Info.
IATA:	International Air Transport Association Shipping Info.	WHMIS:	Workplace Hazardous Materials Information System
DSL:	Domestic Substance List (Canada)		

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 distributor as to the effects of such use or the results to be obtained, nor does distributor 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. All distributors SDS's are reviewed every three years or sooner if necessary. Please check the Review Date on Page 1 for most current version.