



LidoQuest[®] Na₄ EDTA 99%

SAFETY DATA SHEET

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SDS#: 1136

Review/Revision Date: 06/15/21

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **LidoQuest[®] Na₄ EDTA 99%**

CAS #: **13235-36-4**

Chemical Name: **Tetrasodium Ethylenediaminetetraacetic Acid, Tetrahydrate**

Product Code:

Na4EDTAHEB

Application/Uses/ **Chelating agent, sequestering agent**

Restrictions **No stated restrictions**

Distributor Information **LidoChem, Inc. 20 Village Court, Hazlet, NJ 07730, Phone: (732) 888 8000
Fax: (732) 264 2751 * email: info@lidochem.com**

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

SECTION 2 - Hazard(s) Identification

Classification of the substance or mixture (GHS-US)

Acute Toxicity - Oral (Cat 4) Skin Irritation (Cat 2)
Acute Toxicity - Inhalation (Cat 4)
Serious Eye damage/eye irritation (Cat 1)
STOT - (Cat 2) by inhalation
Combustible Dust

Physical Hazards

None

Hazard Statement

H302: Harmful if swallowed
H318: Causes serious eye damage
H332: Harmful if inhaled
H373: May cause damage to organs through prolonged or repeated
H401: Toxic to aquatic life

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



Corrosive



Health



Irritant

Signal
Word
Danger

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P261: Avoid breathing dust
P271: Use only outdoors or in a well-ventilated area

P264: Wash face, hands and any exposed skin thoroughly after handling
P270: Do not eat, drink or smoke when using this product

P280: Wear protective gloves and clothing, eye protection and face protection

P301+330: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Call a POISON CENTER/doctor if you feel unwell.

P304+340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing Call a POISON CENTER/doctor if you feel unwell.

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

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

P501: Dispose of contents/container to an approved waste disposal plant in accordance with local/regional/national regulations.

SECTION 3 Composition/information On Ingredients

Molecular Weight: **452.2**

Chemical FORMULA: **C₁₀H₁₂N₂Na₄O₈·4H₂O**

CAS#:	Common Name/Synonyms:	% by Wt.
13235-36-4	Tetrasodium Ethylenediaminetetraacetic Acid, Tetrahydrate	99%

SECTION 4 - First Aid Information

Description of first aid measures

General Advice:

First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

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. Notes to physician: May cause asthma-like (reactive airways) symptoms. Bronchodilators, expectorants, antitussives and corticosteroids may be of help.

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. Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. No specific antidote. Treatment

If Swallowed:

If person 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. Do not leave victim unattended. To prevent aspiration of swallowed product, lay person on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the person is conscious, give water to further dilute the chemical.

Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information. Repeated excessive exposure may aggravate preexisting lung disease.

Indication of any immediate medical attention and special treatment needed:

Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

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 (NOx) Hazardous combustion products: Fire conditions may cause this product to decompose. Refer to section 10 - Thermal Decomposition. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate.

Special protective equipment and precautions for fire-fighters:

Firefighters should wear full-face, self contained breathing apparatus and impervious protective clothing. Keep people away. Isolate fire and deny unnecessary entry. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

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. Processing this product may generate dusts. Dust explosion hazard may result from forceful application of fire extinguishing agents.

Specific Methods

Standard procedure for chemical fires.

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

Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Refer to section 7, Handling, for additional precautionary measures. Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Keep upwind of spill. Ventilate area of leak or spill. Use appropriate safety equipment. For additional information, refer to Section 8.

Environmental Precautions:

Consult with environmental regulatory agencies for acceptable procedures of disposal. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and Materials for Containment and Clean Up:

Contain spilled material if possible. Use non-sparking tools in cleanup operations. Sweep up. Good housekeeping and controlling of dusts are necessary for safe handling of product. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

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

Do not get in eyes. Do not swallow. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge. See Section 8, EXPOSURE CONTROLS AND PERSONAL

Conditions for safe storage:

Keep container tightly closed, store in cool, dry and well ventilated place. Material is hygroscopic, protect from humidity. Keep container closed. Good housekeeping and controlling of dusts are necessary for safe handling of product.

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	13235-36-4	none	none	ACGIH Threshold Limit Values	none
		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:

ACGIH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED : 15 mg/cubic meter (INHALABLES)

ACGIH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED: 5 mg/cubic meter (RESPIRABLE) 10mg/m³ total dust containing no asbestos and <1%

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: 11.01%

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: N/ap

Bulk Density: 45 lbs./cu.ft.

Other Information: No data available

Flammable Limits: Not highly flammable, combustible solid

UEL: No data available

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

Vapor Pressure(mm/hg): 0.01

Vapor Density(air=1): Not applicable to solids

Autoignition Temp: $> 392^\circ\text{F} / > 200^\circ\text{C}$ (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 dangerous reaction known under conditions of normal use.

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:

LC 50 Ingestion - Rat - 1,780 - <2,000 mg/kg

Skin Effects:

Chronic dermal exposure effects for this product are not known.

Dermal Toxicity:

LD50 Dermal Rabbit: >5,000 mg/kg

Eye Effects:

Causes serious eye damage

Ingestion Effects:

Chronic ingestion effects of this product are not known.
the oral LD50 for rat is 1780mg/kg <2,000 mg/kg

Sensitization:

Not expected to be a skin sensitizer

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 > 1592 mg/l (96 HR), Practically nontoxic to aquatic organisms.

Degradability:

No data available

Bioaccumulative potential:

Material does not bioaccumulate. Bioconcentration factor (BCF) 1-2: Lepomis macrochirus (Bluegill)

Mobility in the Soil:

Mobility in soil is low (Koc between 500-2000) Partition coefficient, soil organic carbon/water 1046 Est.

Additional Adverse effect on environment:

Daphnia magna 24h EC50 =immobilization

Material is expected to biodegrade only very slowly. Fails to pass OECD/EEC tests for ready biodegradability. Material is ultimately biodegradable (Reaches >70% biodegradation in OECD tests.

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 considered a hazardous waste

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, Tetrahydrate

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

UN #: None

NMFC Item No. 50125

Label Requirement: None

RQ: 5000

Placard: None

CAS: 13235-36-4

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 on the Active TSCA List

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:

To the best of our knowledge, this product does NOT contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

Michigan Critical Materials:

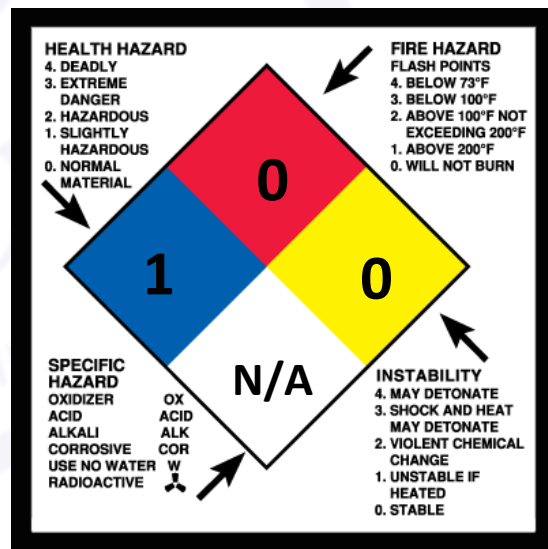
This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

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.
 5-18-17 - Updated H and P statement and Pictogram for Corrosive - Use this SDS and destroy any old ones.
 8-20-18 - Reviewed, updated California Proposition 65 statement, this replaces all previous SDS's.
 7-11-19 - Updated TSCA inventory - product is on the active TSCA list.
 CAS Number: 132535-36-4 is also referenced under 64-02-8 on the TSCA list
 6-15-2021 - Updated Canadian DSL



Date of last revision:

6-15-2021

Reach Number EU

LidoQuest® Na4 EDTA 99%
SAFETY DATA SHEET

LidoChem, Inc.

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

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