



LidoQuest[®] Mn 13%

SAFETY DATA SHEET

Page: 1 of 8

SDS#: 1078

Review/Revision Date: 01/11/17

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **LidoQuest[®] Mn 13%**

CAS #: **15375-84-5**

Chemical Name: **EDTA Manganese-Disodium Complex**

Product Code: **MNEDTA13SIC**

Application/Uses/ **Plant nutrient and Chelating agent**

Restrictions **NONE SPECIFIED**

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)

Not a hazardous substance or mixture.

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

NONE

No label elements required

Physical Hazards

None

PREVENTION: Not Applicable

Hazard Statement

None

RESPONSE: Not Applicable

STORAGE: Not Applicable

DISPOSAL: Not Applicable

OSHA Defined Hazards

This product does NOT contain any products considered hazardous under the Federal OSHA HazCom. Standard 29 CFR 1910.1200.

HNOC - Hazards Not Otherwise Classified

No other hazards classified

Signal Word

None

SECTION 3 Composition/information On Ingredients

Molecular Weight: **336.21**

Chemical FORMULA: **C₁₀H₁₂N₂O₈MnNa₂**

CAS#:	Common Name/Synonyms:	% by Wt.
15375-84-5	EDTA Manganese disodium complex	99.0%
7732-18-5	Water	

SECTION 4 - First Aid Information**Description of first aid measures****General Advice:**

No hazardous which require special first aid measures.

If Inhaled:

Remove to fresh air. Rinse nose and mouth with water. Get medical attention. If breathing becomes difficult, oxygen may be given, preferably with a physician's advice. If not breathing, give artificial respiration. Get medical attention if irritation occurs.

In Case Of Skin Contact:

Remove contaminated clothing and equipment. Wash all affected areas with soap and water for at least 15 minutes. Do not attempt to neutralize with chemical agents. Wash any contaminated clothing and shoes before reuse. Obtain medical advice 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 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 **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 specific product related symptoms are known.

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 fog or spray, dry chemical, foam or carbon dioxide extinguishing agents.

Unsuitable Extinguishing Media:

None specified.

Specific Hazards arising from the chemical:

Risks of ignition followed by flame propagation or secondary explosions shall be prevented by avoiding accumulation of dust, e.g. on floors and ledges. In case of fire or explosion, do not breathe fumes. Nitrogen oxide may develop.

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:**

Do not touch or walk through spilled material. Keep Unauthorized personnel away. After wearing and using recommended protective equipment in Section 8, stop source of spill if safe to do so and dike area to contain spill.

Environmental Precautions:

Consult with environmental regulatory agencies for acceptable procedures of disposal.

Methods and Materials for Containment and Clean Up:

Sweep up spilled solid material, being careful not to create dust. Use clean non-sparking tools and equipment. Return sweeping to stock or, if contaminated, place into a chemical waste container for disposal. Wash away residue with water, without contaminating drains. Soak up wash water with suitable absorbent or sand, sweep up and dispose of in accordance with local regulations.

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

Use appropriate personal protective equipment as specified. Handle in a well ventilated area. Handle and use in a manner consistent with good industrial/manufacturing techniques and practices.

Conditions for safe storage:

Keep in a dry place. Store at room temperature in the original container. Keep container tightly closed. Provide appropriate exhaust ventilation at places where dust is formed. No sparking tools should be used.

Incompatibilities:

Strong oxidizing agents

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

Chemical Identity:	CAS #:	Exposure Limit Values		SOURCE	OSHA/PPM
		TWA	STEL		PEL
EDTA Manganese disodium complex	15375-84-5	none	none	ACGIH Threshold Limit Values	none
Water	7732-18-5	none	none	ACGIH Threshold Limit Values	none
				ACGIH Threshold Limit Values	none

Exposure Limits and Appropriate Engineering Controls:

Contains no substances with occupational exposure limit values.

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

Eye/face protection requirements vary depending upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be used for the particular use intended for this material. Use Tightly fitting safety goggles or splash proof goggles and face shield to prevent eye/face contact. Emergency eye wash must be readily accessible to work area.

Skin Protection

Skin contact should be prevented through use of suitable protective clothing, gloves made with Nitrile rubber and footwear, selected with regard for use conditions and exposure potential. Consideration must be given both to durability as well as permeation resistance.

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

No personal respiratory protective equipment normally required. In the case of dust, vapor or aerosol formation use respirator with an approved filter. Half mask with a particle filter P2 (EN 143)

Ventilation Limits:

Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures: local exhaust ventilation at the point of generation. Recommended to keep dust levels at acceptable limits.

Hygienic Practices:

Minimize breathing dust. Avoid prolonged or repeated breathing of dust and contact with skin. All food and smoking materials should be kept in a separate area away from the storage/use location. Before eating, drinking or smoking, hands and face should be thoroughly washed. Facilities storing or using this material should be equipped with an eyewash and safety shower.

Section 9 - Physical and Chemical Properties

Appearance And Odor: Slight pinkish, crystalline granular

pH: 6-7

Melting Point: Decomposes before melting

Freezing Point: Not applicable

Boiling Point: Not applicable

Flash Point: Not applicable

Evaporation Rate: Not applicable

Solubilities: 800 g/l

Specific Gravity: N/Av

Bulk Density: 600-800 kg/m³

Other Information:

Flammable Limits: Not classified as a flammability hazard

UEL: Not applicable

LEL: >= 40g/m³

Vapor Pressure(mm/hg): Not applicable

Vapor Density(air=1): Not applicable

Autoignition Temp: 260°C

Decomposition Temp: No data available

Reactivity In Water: No data available

Viscosity: Not applicable

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:

Carbon oxides nitrogen oxides (NOx) dust may form explosive mixture in air. The water solution in contact with copper and aluminum may develop hydrogen

Conditions to Avoid:

Prolonged storage at elevated temperatures should be avoided.

Incompatible Materials:

Strong oxidizing agents

Hazardous Decomposition Products:

Decomposition produces toxic oxides or carbon and nitrogen, Sodium oxide, Nitrogen oxides, Metal oxide fume

Section 11- Toxicological Information

Information On The Likely Routes Of Exposure: Inhalation and dermal, Ingestion

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.

Sensitization:

Not evaluated

Carcinogenicity/Mutagenicity:

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC, NTP, OSHA, ACGIH. Not a mutagen.

Reproductive Effects:

No reproductive data available. STOT No data available

Neurotoxicity:

The neurotoxic effects of this product are not known.

Target Organs:

Target organ effects of this material are not available.

Additional Toxicological Information:

No other toxic effects for this product are known.

Section 12- Ecological Information

Ecotoxicity: Bluegill LC50 > 1,000 mg/l (96 HR)

Degradability: Not readily biodegradable.

Bioaccumulative potential: No data available.

Mobility in the Soil: No data available.

Additional Adverse effect on environment:

Biodegradation: Inherently biodegradable - EDTA (acid form) and its salts are not readily biodegradable. Under special conditions like adaptation or slightly alkaline pH, which is realistic under environmental surface water conditions, the biodegradability of EDTA is considerably enhanced and as such EDTA is considered ultimately biodegradable.

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

Offer surplus and non-recyclable solutions to a licensed disposal company. Dispose of as unused product as contaminated packaging. 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 his wastes are hazardous by characteristic/listing. Dispose in accordance with all local, state and federal regulations. Chemical additions, processing or otherwise altering this material may make the waste management information presented incomplete, inaccurate or otherwise inappropriate.

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. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations.

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

Proper Shipping Name: EDTA Chelate, Manganese-Disodium Complex

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

UN #: N/A

Label Requirement: None

RQ: N/A

Placard: None

CAS: 15375-84-5

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 does NOT contain any products considered hazardous under the Federal OSHA HazCom. 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:

N/Ap

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:

None listed

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 considered a hazardous waste.

State Reporting Requirements:

State Right to Know Laws:

CAS#	State RTK	Chemical Name
15375-84-5	NJ, PA	Sodium manganese EDTA/Manganate (2-), N,N1-1,2-ethanediylbis N-Carboxymethyl glycinato (4-)

CALIFORNIA PROPOSITION 65:

This product does NOT contain a chemical or chemicals subject to California Proposition 65.

Michigan Critical Materials:

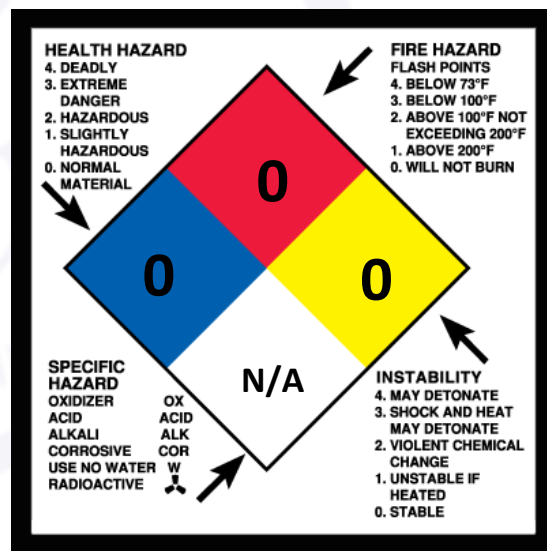
This product does NOT contain ingredients listed on the Michigan Critical Materials Register.

Global Lists/International Inventories:

Canada CEPA: Not listed on the Canadian DSL
Canada WHMIS: Not a WHMIS listed component

SECTION 16 - Other Information

5-20-15 SDS reviewed - updated to GHS requirements. This replaces all previous MSDS's -



Date of last revision:

1-11-2017

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

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