



LidoQuest[®] Cu 15%

SAFETY DATA SHEET

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SDS#: 1076

Review/Revision Date: 07/11/19

SECTION 1 - General Information And Chemical Product Identification

Trade Name: **LidoQuest[®] Cu 15%**

CAS #: **14025-15-1**

Chemical Name: **Ethylenediaminetetraacetic Acid, copper disodium complex**

Product Code:

CuEDTAHEB

Application/Uses/ **Plant nutrient and Chelating agent -
Foliar application for supplying trace elements to various crops.**

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, Category 4,
Oral Eye irritation, Category 2A

Physical Hazards

None specified

Hazard Statement

H302: Harmful if swallowed

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. Combustible Dust

HNOC - Hazards Not Otherwise Classified



Irritant

Signal
Word

Warning

GHS Precautionary Statements - Prevention, Response, Storage, Disposal

P264: Wash skin thoroughly after handling

P270: Do not eat, drink or smoke when using this product

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

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

P330: Rinse mouth

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

P501: Dispose of contents/container in accordance with local regulation, state and federal regulations.

SECTION 3 Composition/information On Ingredients

Molecular Weight: **433.77**

Chemical FORMULA: **C₁₀H₁₂N₂O₈CuNa₂**

CAS#:	Common Name/Synonyms:	% by Wt.
14025-15-1	EDTA Copper-Disodium Complex	.99%
7732-18-5	Water	.0090%

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

Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance.

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 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 **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:

Wear appropriate protective gear for the situation (See Section 8 SDS). Do not touch or walk through spilled material. Keep Unauthorized personnel away. 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. Do not contaminate drain.

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:

Avoid formation of respirable particles. Smoking, eating and drinking should be prohibited in the application area. Avoid contact with skin, eyes and clothing. For personal protection see section 8. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Smoking, eating and drinking should be prohibited in the application area.

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.

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 Copper-Disodium Complex	14025-15-1	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:

Exposure limits represent regulated or recommended worker breathing zone concentrations measured by validated sampling and analytical methods, meeting OSHA requirements. 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 : 10 mg/cubic meter(INHALABLES) ACGH TLV/TWA PARTICULATES NOT OTHERWISE CLASSIFIED: 3

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

Glove material: For prolonged or repeated contact use protective gloves. Glove material: Protective gloves complying with EN 374. Skin contact should be minimized through the use of suitable long-sleeved clothing (i.e shirts and pants). Consideration must be given to both 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

When respirators are required, 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. A Half mask with a particle filter P2 (EN 143)
Do not inhale dust.

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: Blue odorless Microgranular

pH: 6.67%

Melting Point: Breaks down without melting

Freezing Point: Not applicable

Boiling Point: Not applicable

Flash Point: Not applicable

Evaporation Rate: Not applicable

Solubilities: 680 g/l (at 0°C)

Specific Gravity: N/Av

Bulk Density: 600-800 kg/m³

Other Information:

Flammable Limits: The product is not flammable

UEL: No Data Available

LEL: >= 40 g/m³

Vapor Pressure(mm/hg): Not applicable

Vapor Density(air=1): Not applicable

Autoignition Temp: No Data Available

Decomposition Temp: 263°C

Reactivity In Water: none

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. Reacts with strong oxidizing agents.

Possible Hazardous Reactions:

Carbon oxides Nitrogen oxides (NO_x)
Dust may form explosive mixture in air.

Conditions to Avoid:

Prolonged storage at elevated temperatures should be avoided.

Incompatible Materials:

Strong oxidizing agents.

Hazardous Decomposition Products:

Decomposition products are nitrogen oxide. Thermal Decomposition: 263°C

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:

Could be a skin irritant

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. Acute toxicity estimate: 956.99 mg/kg Method: Calculation method

Sensitization:

Not a sensitizer

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. Species: Rat Application Route: Oral Result: Not carcinogenic to laboratory animals. Information given is based on data obtained from similar substances.

Reproductive Effects:

Species: Rat, Fertility: NOAEL (No observed adverse effect level): 500 mg/kg body weight/day, Method: OECD Test Guideline 415
Species: Rat, Teratogenicity: NOAEL (No observed adverse effect level): 500 mg/kg body weight/day Method: OECD Test Guideline 414

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: Toxicity to fish: 555 mg/l Method: OECD Test guideline 203

Degradability: Not readily biodegradable, but will degrade after a longer period.

Bioaccumulative potential: Not expected considering the low log Pow value.

Mobility in the Soil: No test results

Additional Adverse effect on environment:

Toxicity to daphnia and other aquatic invertebrates: 109.2 mg/l Method: OECD Test Guideline 202

Toxicity to algae : 662.6 mg/l Method: OECD Test Guideline 201

Toxicity to bacteria: : NOEC: 654 mg/l Method: OECD Test Guideline 209

Toxicity to fish (Chronic toxicity): 37.2 mg/l Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity): 29.5 mg/l Method: OECD Test Guideline 211

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.

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

Proper Shipping Name: Chelating Compound Dry, EDTA Chelate, Copper-Disodium Complex

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

UN #: N/A

Label Requirement: None

RQ: 5,000 LBS. CuEDTA

Placard: None

CAS: 14025-15-1

Packing Group: N/Ap

ERG Book Information: Guide # 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. Combustible Dust

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:
14025-15-1	EDTA, Copper-Disodium Complex

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

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 waster under RCRA.

State Reporting Requirements:**State Right to Know Laws:**

CAS#	State RTK NJ, PA, CA	Chemical Name
		Disodium Copper EDTA

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: Controlled product, Class D2

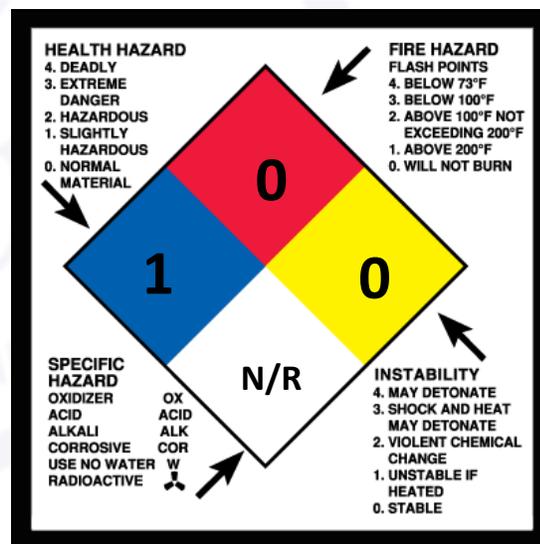
SECTION 16 - Other Information

Reviewed - Updated to GHS standards 5-20-15

7-31-17 - Updated Molecular weight

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.



Date of last revision:

7-11-2019

Reach Number EU

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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