

CATALYTIC INNOVATIONS



SAFETY DATA SHEET

1. PRODUCT IDENTIFICATION

Product Name: Copper EDTA Solution—7.5% Cu
Trade Names/Synonyms: Ethylenediaminetetraacetic acid (EDTA), Copper chelate
EPA Reg. No.: Not applicable

Manufacturer: Catalytic Innovations, LLC
11601 Twitty Drive
Rolla, MO 65401

Emergency Contact Number: 573-578-1368

MSDS CREATION DATE: November 20, 2017

2. COMPOSITION

<u>Chemical Ingredients:</u>	<u>Percentage by Weight</u>	<u>CAS No.</u>	<u>TLV</u>
Total Nitrogen (N)	7.0	Mixture	none established
Aqueous Ammonia		1336-21-6	none established
EDTA	34.5	60-00-4	none established
Copper	7.5	7440-50-8	none established

3. HAZARD IDENTIFICATION

CAUTION: Keep out of reach of children.

Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Use with adequate ventilation. Eye protection and gloves are suggested when handling product. Wash thoroughly after handling. Primary routes of entry are eye contact and skin contact.

Physical hazards: Not classified.
Health hazards: Not classified.
OSHA defined hazards: Not classified.

4. FIRST AID MEASURES

Copper EDTA Solution

Inhalation: Remove affected person to fresh air and facilitate breathing as needed. Contact physician for further care.

Skin and Eye Contact: Maybe an irritant to skin and eyes. Flush affected area with water for at least 15 minutes. Contact physician for further care.

Ingestion: Drink plenty of water to dilute. Notify a poison control center immediately. Contact physician for further care.

5. FIRE FIGHTING MEASURES

Flash Point (°F/Test Method): Does not flash.
Flammable Limits (LFL & UFL): Not established.

EXTINGUISHING MEDIA: Use medium appropriate to surrounding fire. Water spray/fog, foam, carbon dioxide, dry chemical are acceptable. Remain upwind. Avoid breathing smoke. Wear contained breathing apparatus and full protective gear.

Hazardous Combustion Products: May include but are not limited to oxides of carbon, copper, and nitrogen.

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled: Ventilate area. Contain spill and absorb liquid with clay or other absorbent material. Sweep up material and place in container for possible land application according to label use or for proper disposal. Check local, state and federal regulations for proper disposal.

Caution: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

7. HANDLING/STORAGE INFORMATION

Open the container carefully. Contents may be under pressure and has a slight odor of ammonia. Eye protection and gloves are suggested when handling undiluted product. Use with adequate ventilation. Keep container tightly closed when not in use. A poorly sealed container may adversely affect product quality.

Do not store below 25 °F.

Observe all federal, state and local regulations when storing this product. It is recommended that storage and transfers of this product be done on an impervious surface to prevent contamination of waterways.

Copper EDTA solutions are aggressive to mild steel, stainless steel, and brass. Store in compatible container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Copper EDTA Solution

Engineering Controls: Not normally required.

Respiratory Controls: Not normally required. If ammonia odor is too strong, wear a NIOSH approved respirator for anhydrous ammonia.

Exposure Limits: No occupational exposure limits have been established by OSHA/ACGIH/NIOSH.

Ventilation: Use general room ventilation or adequate ventilation for comfort.

Protective Gloves and Other Protective Equipment: Wear chemically protective gloves. Wear chemically protective boots, aprons, and gauntlets to prevent prolonged or repeated contact with skin.

Eye Protection: Wear safety goggles when handling this product. Use a face shield for additional protection. Contact lenses are not eye protective devices.

For Firefighting and Other Immediately Harmful Conditions: Any self-contained breathing apparatus or supplied air apparatus that has a full face piece and is operated in a positive-pressure mode is suitable.

9. CHEMICAL/PHYSICAL PROPERTIES

Physical State: Liquid

Appearance and Odor: Clear to straw colored with no odor.

pH: 8.5-11

Melting Point: Not applicable

Boiling Point: Undetermined

Water Solubility: Miscible.

Specific Gravity (water = 1.0): 1.26 (10.51 lbs/gallon)

Evaporation Rate: Not established.

Percent Volatile (by volume): Not established

Vapor Pressure: Not established.

10. STABILITY AND REACTIVITY

Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Avoid contact with strong oxidizers, strong acids and/or excessive heat.

Hazardous Decomposition Products: Thermal decomposition may include but are not limited to oxides of carbon, copper, and nitrogen.

11. TOXICOLOGICAL INFORMATION

Copper EDTA Solution

Acute Oral LD₅₀: Ammonia: 350 mg/kg

Eye Irritation: Causes slight irritation

Inhalation LC₅₀: 2000 ppm (4 hr.)

Ingestion: Maybe an irritant if ingested.

Carcinogenic Potential: None listed in OSHA, NTP, IARC, or ACGIH

Acute Toxicity Values: Not Applicable

Acute Dermal LD₅₀: not established

Skin Irritation: Causes slight irritation.

Skin Sensitization: not established

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL IMPACT RATING (0-4): No data available for this product

ACUTE AQUATIC TOXICITY: No data available for this product

DEGRADABILITY: No data available for this product

LOG BIOCONCENTRATION FACTOR (BCF): No data available for this product

LOG OCTANOL/WATER PARTITION COEFFICIENT: No data available for this product

Material is toxic to fish and other aquatic organisms.

Do not contaminate water supplies.

13. DISPOSAL CONSIDERATIONS

Evaluation is required by the user at the time of disposal. In all cases, disposal should be in accordance with all local, state, and federal laws and regulations. For recycling options please contact product manufacturer.

14. TRANSPORTATION INFORMATION

Not Established under DOT - 49 CFR 172.101

Freight Classification: Fertilizing Compounds (Manufactured Fertilizers), NOI, Liquid (NMFC 68140, Sub 6; Class 70)

Consult Appropriate ICAO/IATA and IMDG regulations for shipment requirements in the Air and Maritime shipping modes.

15. REGULATORY INFORMATION

NFPA & HMIS Hazard Ratings:		NFPA		HMIS			
		1	Health	0	Least	1	Health
		0	Flammability	1	Slight	0	Flammability
		1	Instability	2	Moderate	1	Reactivity
				3	High	H	PPE
				4	Severe		

SARA Hazard Notification/Reporting

SARA Title III Hazard Category: Immediate Y Fire N Delayed N

Copper EDTA Solution

Reactive N Sudden Release of Pressure N

16. OTHER INFORMATION

Prepared by: ESH Department
MSDS Preparation Date: February 3, 2017
Last Revision Date: new

FOR ADDITIONAL NON-EMERGENCY INFORMATION CONTACT:

Catalytic Innovations, LLC
11601 Twitty Drive
Rolla, MO 65401
573-578-1368

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