

# CATALYTIC INNOVATIONS



## SAFETY DATA SHEET

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### 1. PRODUCT IDENTIFICATION

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**Product Name:** *Calcium EDTA (3% Ca)*

**CAS #:**

**Trade Names/Synonyms:** Liquid Zinc Fertilizer, Ethylenediaminetetraacetic Acid (EDTA), Calcium Chelate

**EPA Reg. No.:** Not applicable

**Use of substance/mixture:** For laboratory, manufacturing, and fertilizer use only.

**Restricted Use:** Not for food, drug, or household use.

**Manufacturer:** Catalytic Innovations, LLC  
10027 County Road 2020  
Rolla, MO 65401

**Emergency Contact Number:** 573-578- 1368

**SDS CREATION DATE:** February 12<sup>th</sup>, 2018

**SDS REVISION DATE:** April 26<sup>th</sup>, 2023

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### 2. HAZARD IDENTIFICATION

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**GHS CLASSIFICATIONS:** Not classified

**SIGNAL WORD:** N/A

**HAZARD STATEMENTS:** N/A

**PRECAUTIONARY STATEMENTS:** N/A

**HEALTH COMMENTS:** Read all precautions of products being handled and follow the most restrictive language for all products to provide the safest work environment.

**COMMENTS:** KEEP OUT OF REACH OF CHILDREN

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### 3. COMPOSITION

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<u>Chemical Ingredients:</u>	<u>Percentage by Weight</u>	<u>CAS No.</u>	<u>GHS-US</u>
Total Nitrogen (N)	4.2%	Mixture	
Anhydrous Ammonia		7664-41-7	
EDTA		60-00-4	
Calcium Carbonate	3.0%	471-34-1	

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## 4. FIRST AID MEASURES

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**EYES:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first minutes then continue rinsing eyes. Call a poison control center or doctor for treatment advice if pain, blinking, or redness persists.

**SKIN:** Take off contaminated clothing. Rinse skin immediately with plenty of water and mild soap for 15-20 minutes followed by a rinse with warm water. Call a poison control center or doctor for treatment advice.

**INGESTION:** Immediately call a poison control center or doctor. Rinse the mouth. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. Allow the victim to rest. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

**NOTES TO PHYSICIAN:** All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

**Acute Symptoms:** No information available.

**Chronic Symptoms:** No information available.

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## 5. FIRE FIGHTING MEASURES

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**Flash Point (°F/Test Method):** No information available.

**Flammable Limits (LFL & UFL):** Non-flammable.

**Extinguishing Media:** Use appropriate firefighting agent for the fire. Water spray/fog, foam, carbon dioxide, dry chemicals are all acceptable media.

**Specific Hazards Arising from Chemical:** No information available.

**Hazardous Combustion Products:** May include but is not limited to oxides of carbon, calcium, and nitrogen.

**Precautionary Measures for Fire-Fighters:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection (self-contained breathing apparatus).

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## 6. ACCIDENTAL RELEASE MEASURES

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**Steps to be taken in case material is released or spilled:** Cover contained spill with an inert absorbent material such as sand, vermiculite or other appropriate material. Vacuum, scoop or sweep up material and place in a container for disposal. Do not place spilled material back in original container. Ensure adequate ventilation if a spill occurs.

**Environmental Caution:** Keep spills and cleaning runoff out of municipal sewers and open bodies of water. Notify the authorities if any of the substance enters the sewers or public waters.

**Other Comments:** No information available.

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## 7. HANDLING/STORAGE INFORMATION

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**Precautions for Safe Handling:** Use only outdoors or in a well-ventilated area to avoid formation of vapor. Avoid eye and skin contact and do not breathe in vapor, mist, or dust. Wash contaminated clothing. Do not bring contaminated clothing outside of work areas.

**Precautions for Storage:** Keep container closed when in use. Do not store the product with highly reactive substances and strong reducing agents. **Keep stored in temperatures above 45°F.**

**Other Comments:** No information available.

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.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

**Engineering Controls:** Emergency eye wash fountains and showers should be made available in the immediate vicinity of the chemical or where exposure can occur. If possible, avoid generating dust, fumes, gas, or vapor. Ensure adequate ventilation. If engineering measures are not sufficient to maintain concentration of dust particles below the OEL, approved respiratory protection must be worn.

**Hygiene Measures:** Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, or when leaving work. Keep away from food and drink.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, wear approved respiratory protection. If the ammonia odor is strong, wear a NIOSH approved respirator for anhydrous ammonia.

**Skin/Body Protection:** Wear chemically protective gloves. Wear chemically protective boots, aprons, and gauntlets to prevent prolonged or repeated contact with skin.

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

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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**Physical State:** Liquid

**Appearance** Clear to straw colored.

**Odor:** Slight ammonia odor to no odor.

**pH:** 6.0-8.0

**Evaporation Rate:** Negligible.

**Melting Point:** No data available.

**Freezing Point:** No data available.

**Boiling Point:** Undetermined.

**Flash Point:** Not combustible.

**Flammability:** No data available.

**Relative Density:** No data available.

**Water Solubility:** Miscible

**Specific Gravity (water = 1.0):** 1.19 (9.93 lbs/gallon)

**Percent Volatile (by volume):** No data available.

**Vapor Pressure:** No data available.

**Vapor Density:** No data available.

**Viscosity, Kinematic:** Not applicable.

**Partition Coefficient: N-Octanol/Water:** Not applicable.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** No information available.

**Stability:** Product is stable at ambient temperature and pressure, under normal storage and handling conditions.

**Conditions to Avoid:** Avoid excessive heat or extremely low temperatures.

**Incompatible Materials:** Strong oxidizers. Strong acids.

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

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## 11. TOXICOLOGICAL INFORMATION

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**Likely Routes of Exposure:** Skin/eye contact and inhalation of ammonia vapors.

**Acute Toxicity Effects:**

Component: Ammonia	
Test	Result
LD50 Oral (Rat)	350 mg/kg
LC50 Inhalation (Rat)	2000 ppm (4 hrs)

Component: Calcium Carbonate	
Test	Result
LD50 Oral (Rat) (50% kill)	6450 mg/kg

**Sensitization:** No information available

**Eye Irritation:** May cause moderate but temporary irritation. Additional effects may include tearing and/or blurred vision.

**Skin Irritation:** May cause temporary irritation through prolonged contact.

**Respiratory Irritation:** No information available.

**Reproductive Toxicity:** No information available.

**Developmental Toxicity:** No information available.

**STOT Single Exposure:** Single, short-term exposure to ammonia vapors can cause respiratory tract irritation.

**STOT Repeated Exposure:** No information available.

**Carcinogenicity:** Not listed as a carcinogen by OSHA, NTP, IARC, or ACGIH.

**Chronic Effects/Symptoms:** May be an irritant if ingested.

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## 12. ECOLOGICAL INFORMATION

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**Acute Aquatic Toxicity Effects:** No information available.

**Persistence and Degradability:** No information available.

**Bioaccumulative Potential:** No information available.

**Mobility:** No information available.

Do not contaminate water supplies. Avoid release to the environment.

### 13. DISPOSAL CONSIDERATIONS

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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

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DOT: Not Regulated under 49 CFR 172.101

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

### 15. REGULATORY INFORMATION

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US FEDERAL REGULATIONS AND INVENTORY

Product: Calcium EDTA 3%	
Regulation	Status
SARA 313 (TRI Reporting)	YES
SARA Section 311/312	Immediate (Acute) Health Hazard
TSCA	YES
CERCLA	RQ for Ammonia (100 lbs)

### 16. OTHER INFORMATION

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Prepared by: ESH Department  
SDS Preparation Date: February 12<sup>th</sup>, 2018  
Last Revision Date: April 26<sup>th</sup>, 2023  
Summary of Revision: Format Update

#### NFPA CODES



#### FOR ADDITIONAL NON-EMERGENCY INFORMATION CONTACT:

Catalytic Innovations, LLC  
10027 County Road 2020  
Rolla, MO 65401  
573-578-1368

Note: This SDS was prepared for and shall only be used for this product. The information and recommendations on this SDS are presented in good faith and based on data which is believed to be accurate. Catalytic Innovations, however, makes no guarantees or warranty, either expressed or implied, on the accuracy of this information. The conditions or methods of handling, storage, use, and disposal of this is beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with the handling, storage, disposal of this product. If this product is used as a

component of another product, the information contained in this SDS may no longer be applicable.

Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. This information relates to the specific product designated and may not be valid for such product used in combination with any other materials or in any other processes. Such information is to the best of our knowledge and belief, accurate and reliable as of the date compiled. However, no representation, warranty or guarantee is made as to its accuracy, reliability, or completeness by Catalytic Innovations, LLC. It is the user's responsibility to satisfy themselves as to the suitability and completeness of such information for their own particular use. We do not accept liability for any loss or damage that may occur from the use of this information nor do we offer warranty against patent infringement. Catalytic Innovations, LLC reserves the right to refuse shipment of this product to any consumer who fails to demonstrate the ability to consistently handle and use it safely and in compliance with all applicable laws, rules and regulations. Such demonstration may require on-site inspection of any or all storage, processing, packaging and other handling systems that come in contact with it. Customers are responsible for compliance with local, state and federal regulations that may be pertinent in the storage, application and disposal of this product.

Legend:

**ACGIH** (American Conference of Governmental Industrial Hygienists)

**OSHA** (Occupational Safety and Health Agency)

**NIOSH** (National Institute for Occupational Safety and Health)

**IARC** (International Agency for Research on Cancer)

**TSCA** (Toxic Substance Control Act)

**SARA** (Superfund Amendments and Reauthorization Act)

**CFR** (Code of Federal Regulations)

**DOT** (Department of Transportation)

**CAS** (Chemical Abstracts Service)

**CWA** (Clean Water Act)

**CAA** (Clean Air Act)