

# CATALYTIC INNOVATIONS



## SAFETY DATA SHEET

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### 1. PRODUCT IDENTIFICATION

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**Product Name:** *Manganese EDTA (6% Mn)*

**CAS #:** N/A

**Trade Names/Synonyms:** Ethylenediaminetetraacetic acid (EDTA), Manganese chelate, liquid manganese fertilizer

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

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

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

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

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

**SDS CREATION DATE:** January 3, 2019

**SDS Revision Date:** April 19<sup>th</sup>, 2023

### 2. HAZARD IDENTIFICATION

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**GHS CLASSIFICATION:** This product is not considered to be or to contain hazardous chemicals based on the evaluations made by our company under the OSHA Hazard Communication Standard, 29 CFR 1920.1200.

**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

### 3. COMPOSITION

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<b>Chemical Ingredients:</b>	<b>Percentage by Weight</b>	<b>CAS No.</b>	<b>US-GHS</b>
Total Nitrogen	6.6%		See Section 2
Anhydrous Ammonia		1336-21-6	
EDTA		60-00-4	
Manganese	6.0%	1314-13-2	

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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.

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

**INGESTION:** Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

**INHALATION:** Move person to fresh air. 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.

**Symptoms:** No data available.

**Chronic Symptoms:** No data available.

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## 5. FIRE FIGHTING MEASURES

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**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 is acceptable. Remain upwind. Avoid breathing smoke. Wear contained breathing apparatus and full protective gear.

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

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

**Precautionary Measures for Fire-Fighters:** Exercise caution when fighting any chemical fire. Prevent fire-fighting water that may be contaminated by chemical from entering the environment. Do not enter without personal protective equipment, including respiratory protection.

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## 6. ACCIDENTAL RELEASE MEASURES

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**Steps to be taken in case material is released or spilled:** 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.

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## 7. HANDLING/STORAGE INFORMATION

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**Precautions for Safe Handling:** 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.

**Precautions for Storage:** Keep container tightly closed when in use. Do not store the product with highly reactive substances and strong reducing agents. Keep in a dry, cool and well-ventilated place.

**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:

Component: Manganese Compounds		
Agency	Parameters	Values
OSHA	PEL	5.0 mg/m <sup>3</sup>

**Engineering Controls:** Emergency eye wash fountains and showers should be made available in the immediate vicinity of the chemical or where exposure can occur. Ensure adequate ventilation.

**Hygiene Measures:** Wash hands and other exposed areas with mild soap and water before eating, drinking, smoking, or when leaving work. Do not bring contaminated clothing outside of work areas.

**Respiratory Protection:** Avoid breathing dust or mist. Use NIOSH approved respiratory protection equipment when air borne exposure is excessive.

**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. CHEMICAL/PHYSICAL PROPERTIES

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**Physical State:** Liquid

**Appearance:** Faint pink to orange

**Odor:** Odorless

**pH:** 5.0-6.5

**Evaporation Rate:** No data available.

**Flammability:** Non-flammable.

**Melting Point:** No data available.

**Freezing Point:** No data available.

**Boiling Point:** No data available.

**Flash Point:** Non-flammable.

**Relative Density:** No data available.

**Water Solubility:** Miscible

**Specific Gravity (water = 1.0):** 1.28 (10.68 lbs/gallon)

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

**Vapor Pressure:** No data available

**Vapor Density:** No data available

**Viscosity:** No data available.

**Partition Coefficient: N-Octanol/Water:** No data available.

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## 10. STABILITY AND REACTIVITY

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**Reactivity:** No information available

**Stability:** Stable under normal temperatures and pressures.

**Conditions to Avoid:** No data available.

**Incompatible Materials:** No information available.

**Hazardous Decomposition Products:**

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## 11. TOXICOLOGICAL INFORMATION

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**Likely Routes of Exposure:** Inhalation and skin/eye contact.

**Acute Toxicity Effects:**

Component: Ammonia	
Test	Results
LD50 Oral Rat	350 mg/kg

**Sensitization:** No information available.

**Eye Irritation :** Causes eye irritation.

**Skin Irritation:** Causes skin irritation.

**Respiratory Irritation:** No information available.

**Reproductive Toxicity:** No information available.

**Developmental Toxicity:** No information available.

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

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

**Carcinogenicity:** No information available.

**Acute Symptoms:** No information available.

**Chronic Effects:** No information.

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## 12. ECOLOGICAL INFORMATION

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**ACUTE AQUATIC TOXICITY:** No data available.

**PERSISTANCE AND DEGRADABILITY:** No data available.

**BIOACCUMULATIVE POTENTIAL:** No data available.

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## 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.

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## 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)

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## 15. REGULATORY INFORMATION

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Product: Manganese EDTA Solution	
Statute	Status
SARA Section 311/312 Hazard Classes	N/A
SARA Section 313 (Tri Reporting)	YES
TSCA Listing	YES

CERCLA	RQ of Ammonia (100lbs)
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## 16. OTHER INFORMATION

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Prepared by: ESH Department  
SDS Preparation Date: February 3, 2017  
Last Revision Date: April 19<sup>th</sup>, 2023

**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*)