


Safety Data Sheet

NFPA HAZARD RATING				U.S. TRANSPORT SUMMARY	
0	Least				
1	Slight	2	Health		Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.
2	Moderate	0	Flammability		
3	High	0	Reactivity		
4	Severe				

SECTION 1: IDENTIFICATION	
Product Name:	Ultra-Che® Corn Mix EDTA
EPA Registration #:	Exempt
Product ID/Unity #:	10015325, 10136398, 10016614, 10122796
Common Name:	Liquid EDTA micronutrient fertilizer
Chemical Description:	Copper EDTA, Manganese EDTA and Zinc EDTA
Recommended Uses:	Fertilizer product – See product label for full directions for use.
Restrictions for Use:	See product label for any potential restrictions on use.
Manufactured For: WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs) Non-Emergency Business Inquiries: 1-855-494-6343 Mon – Fri 8am – 5pm (Central Standard Time)
FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL: CHEMTREC 1-800-424-9300 (24 hours)	

SECTION 2: HAZARDS IDENTIFICATION	
EMERGENCY OVERVIEW: Light blue liquid with slight ammonia odor. Inhalation of large concentration of vapor or mist may cause respiratory tract irritation. Causes eye and skin irritation.	
POTENTIAL HEALTH EFFECTS: Eyes: Causes moderate but temporary eye irritation. Skin: Causes moderate skin irritation, including redness and itching. Inhalation: Inhalation of large concentration of vapor or mist may cause respiratory tract irritation and discomfort. Ingestion: May be harmful if swallowed. Preexisting Conditions: Preexisting respiratory conditions may be aggravated by exposures to vapor or mist. Chronic Health Effects: None known	
Carcinogenicity	NTP: Not listed IARC: Not listed OSHA: Not listed
OSHA HCS 2012 CLASSIFICATION: Eye Irritation Category 2B; Skin Irritation Category 2; Specific Target Organ Toxicant – Single Exposure Category 3	
SIGNAL WORD: WARNING	
HAZARD STATEMENTS: Causes eye irritation. Causes skin irritation. May cause respiratory irritation.	
Percent of product with unknown toxicity: 0%	
PRECAUTIONARY STATEMENTS: Prevention: Wash hands thoroughly after handling. Wear protective gloves. Avoid breathing mist, spray or fumes. Use only outdoors in a well-ventilated area.	

Continued on next page

Response: **If in eyes:** Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention. **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor for treatment advice if you feel unwell. **If on skin:** Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse.

Storage: Store in a well-ventilated and secured place. Keep container tightly closed.

Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Diammonium salt of Zinc Ethylenediaminetetraacetic acid	30.0 – 35.0%	67859-51-2
Dipotassium salt of Manganese Ethylenediaminetetraacetic acid	10.0 – 15.0%	68015-77-0
Diammonium salt of Copper Ethylenediaminetetraacetic acid	1.0 – 5.0%	67989-88-2
Free ammonia	<1.0%	7664-41-7

*Ingredients not specifically listed are non-hazardous and are considered to be confidential business information under 29 CFR 1910.1200(j).

See Section 8 for exposure limits.

SECTION 4: FIRST AID MEASURES

Inhalation: Remove person from contaminated area to fresh air and assist breathing as needed. Seek medical attention or call a poison control center for treatment advice.

Ingestion: Seek medical attention or call a poison control center for treatment advice. Do not induce vomiting unless instructed to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

Eyes: Flush eyes with clean water for at least 15 minutes. Lift eyelids to facilitate irrigation. If present, remove contact lenses after 5 minutes and continue rinsing. Seek medical attention if irritation persists.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap and water. Seek medical attention if irritation persists.

SECTION 5: FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Water fog, foam, dry chemical, carbon dioxide (CO2), water spray

Special Fire Fighting Procedures: Wear NIOSH/MSHA approved self-contained breathing apparatus and full bunker gear. Dike area to prevent runoff and contamination of water sources. Dispose of fire control water later. Avoid breathing vapors; keep upwind.

Hazardous Combustion Products: Thermal decomposition may include toxic ammonia gas, and/or toxic oxides of copper, manganese, zinc and nitrogen.

Unusual Fire and Explosion Hazards: Closed containers may explode from vapor expansion in high heat.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: Refer to Section 8 for personal protective equipment to be worn during containment and clean-up of a spill involving this product.

Environmental Precautions: Do not allow spilled product to enter sewers or waterways.

Methods for Containment: Contain spilled product by diking area with sand or earth.

Methods for Clean-up: 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.

Other Information: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) as the product contains Ammonia with a reportable quantity (RQ) of 100 lbs. See Section 15 for additional information.

SECTION 7: HANDLING AND STORAGE

Handling: Ensure adequate ventilation during handling and use. Immediately clean up spills that occur during handling. Keep containers closed when not in use. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

Storage: Store in a secured area away from children, feed and food products. Store in original container only and in a cool, well-ventilated dry place above the minimum storage temperature.

Minimum Storage Temperature: 32°F

Other Precautions: Consult Federal, state and local laws and regulations pertaining to storage.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Ammonia (CAS# 7664-41-7)	35 mg/m ³ or 50 ppm 8 hour TWA	24 mg/m ³ or 35 ppm 15 min. STEL 17 mg/m ³ or 25 ppm 8 hour TWA	27 mg/m ³ or 35 ppm 15 min. STEL 18 mg/m ³ or 25 ppm 8 hour TWA
Copper dusts & mists (as Cu)	1 mg/m ³	1 mg/m ³	1 mg/m ³
Manganese compounds (as Mn)	5 mg/m ³	0.02 mg/m ³ (resp.); 0.1 mg/m ³ (IHL)	1 mg/m ³ (TWA); 3 mg/m ³ (STEL)

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed permissible levels or if a pre-existing respiratory condition exists, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for organic vapors, ammonia and general particulates.

Engineering Controls: **Local Exhaust:** Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Protective Gloves: Wear chemically protective gloves.

Eye Protection: Wear chemical goggles or safety glasses and full face shield. Contact lenses are not protective eye devices. An emergency eyewash or water supply should be readily accessible to the work area.

Other Protective Clothing or Equipment: Wear long-sleeve shirt, long pants and shoes plus socks to prevent skin contact.

Work/Hygienic Practices: Never eat, drink, nor use tobacco in work areas. Practice good hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.281 (typical)
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	10.69 lbs/gallon (typical)
Vapor Density (Air=1):	Not determined	Freezing Point:	Not determined
Solubility in Water (wt %):	100%	Boiling Point/Range:	Not determined
Viscosity:	Not determined	pH:	7.5 – 8.5
Appearance and odor:	Light blue liquid with slight ammonia odor	Flash Point:	Not combustible

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Contact with strong oxidizers may result in a fire and explosion hazard.

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

Possibility of Hazardous Reactions: Will not occur

Conditions to Avoid: Avoid excessive heat.

Incompatible Materials: Strong bases, acids and oxidizers.

Hazardous Decomposition Products: Thermal decomposition may include ammonia and toxic and hazardous oxides of copper, manganese, zinc and nitrogen

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Contact may cause moderate but temporary irritation. Additional effects may include tearing and/or blurred vision.

Skin Effects: Estimated LD50 = 4,024 mg/kg. Contact may cause moderate irritation. Prolonged or repeated exposure may lead to reddening of skin, rash, dermatitis, or other skin reactions.

Acute Inhalation Effects: Estimated LC50 > 5.0 mg/L

Acute Oral Effects: Estimated LD50 = 5,858 mg/kg

Specific Target Organ Toxicity: Single, short-term exposure to ammonia vapors can cause respiratory tract irritation.

CHRONIC TOXICITY

Chronic Effects: None known

Carcinogenicity: None known

Mutagenicity: None known

Teratogenicity: None known

Reproductive Toxicity: None known

POTENTIAL HEALTH EFFECTS:

Eyes: Causes moderate but temporary eye irritation.

Skin: Causes moderate skin irritation, including redness and itching.

Inhalation: Inhalation of large concentration of vapor or mist may cause respiratory tract irritation and discomfort.

Ingestion: May be harmful if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: Not determined

ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: Estimated 96 hr LC50 = 50 mg/L (Based upon component data)

Aquatic Invertebrate Acute Toxicity: Estimated 48 hr EC50 = 1,262 mg/L (Based upon component data)

Aquatic Plant Toxicity: Estimated 72 hr EC50 = 5,645 mg/L (Based upon component data)

Bird Acute and Prolonged Toxicity: Not determined

Honeybee Toxicity: Not determined

ENVIRONMENTAL EFFECTS:

Soil Absorption/Mobility: Not determined

Persistence and degradability: Not determined

Bioaccumulative Potential: Not determined

Other adverse effects: Not determined

SECTION 13: DISPOSAL CONSIDERATIONS

Waste: Dispose of in accordance with applicable Federal, state and local laws and regulations.

Container: Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.

SECTION 14: TRANSPORT INFORMATION

DOT: (Ground) This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment.

For quantities greater than 1281 gals (4850 ℓ): UN 3082

UN Number: Not regulated

UN Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Ammonia)

Ultra-Che[®] Corn Mix EDTA

IMDG: (Sea)	Class 9, Packaging group III
IATA: (Air)	Class 9, Packaging group III
TDG: (Canada)	Not determined
Special/Environmental Precautions:	None known
Transport in bulk (according to MARPOL 73/78, Annex II and the IBC code):	Not available

SECTION 15: REGULATORY INFORMATION

TSCA Inventory: All components are either listed or exempt from listing on the TSCA inventory.

SARA Title III Information:

Section 302 - Extremely hazardous substances: Ammonia (CAS# 7664-41-7)

Section 311/312 - Hazard Categories: Immediate (Acute)

Section 313 - The following chemicals are subject to the reporting requirements of Section 313 of Title III, Superfund Amendments and Reauthorization Act of 1986 and 40 CFR 372:

Copper compounds 1.0 – 5.0%; Manganese compounds 10.0 – 15.0%; Zinc compounds 30.0 -35.0%; Ammonia (CAS# 7664-41-7) <1.0%

CERCLA - This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

Ammonia (7664-41-7) has an RQ of 100 lbs reached with 1,282 gallons of product.

Copper compounds, manganese compounds, and zinc compounds are considered to be CERCLA hazardous substances though no RQ has been established.

California Proposition 65: This product does not contain any chemicals known to the state of California to cause cancer and/or reproductive harm.

U.S. State Worker and Community Right-To-Know (RTK) Information (CT, IL, MA, MN, NH, NJ, PA, RI):

Chemical Name	CAS #	State(s)
Ammonia	7664-41-7	MA, NJ, PA
Dipotassium salt of manganese EDTA (Manganese compounds)	68015-77-0	MA, MN, NJ, PA
Diammonium salt of zinc EDTA (Zinc compounds)	67859-51-2	IL, NJ

Canadian Domestic Substances List: Not determined

WHMIS Classification: This product is not approved for use in Canada. WHMIS classification is not determined.

EU Regulations: Regulation EC 1272/2008 (EU-GHS/CLP)

SECTION 16: OTHER

Disclaimer: The information presented herein is based on available data from reliable sources and is correct to the best of WinField Solutions' knowledge. WinField Solutions, LLC makes no warranty, express nor implied, regarding the accuracy of the data or the results obtained from the use of this product. Nothing herein may be construed as recommending any practice or any product in violation of any law or regulations. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precautions. We disclaim all liability for injury or damage stemming from any improper use of the material or product described herein.

Revision Date: August 25, 2019

Supersedes document dated: October 25, 2018

Sections updated: 14,15