



## Ultra-Che® Manganese 6% EDTA

### Safety Data Sheet

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

SECTION 1: IDENTIFICATION	
<b>Product Name:</b> Ultra-Che® Manganese 6% EDTA <b>EPA Registration #:</b> Exempt <b>Product ID/Unity #:</b> 10016310, 10122759, 1415438, 1415439, 15912900 <b>Common Name:</b> Liquid manganese fertilizer <b>Chemical Description:</b> Manganese dipotassium EDTA <b>Recommended Uses:</b> Fertilizer product – See product label for full directions for use. <b>Restrictions for Use:</b> See product label for any potential restrictions on use.	
<b>Manufactured For:</b> WINFIELD SOLUTIONS, LLC P. O. Box 64589 St. Paul, MN 55164-0589	<b>MEDICAL EMERGENCY TELEPHONE NUMBER:</b> 1-877-424-7452 (24hrs)  <b>Non-Emergency Business Inquiries:</b> 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	
<b>EMERGENCY OVERVIEW:</b> Pinkish brown liquid. May cause mild and temporary skin and eye irritation. Based on currently available data, this product does not meet the regulatory definition of a hazardous chemical. However, good industrial hygiene practices should be used in handling the product.	
<b>POTENTIAL HEALTH EFFECTS:</b> <b>Eyes:</b> May cause mild but reversible eye irritation. <b>Skin:</b> May cause mild but reversible skin irritation. <b>Inhalation:</b> May cause minor irritation of the upper respiratory tract. <b>Ingestion:</b> May cause minor irritation of the digestive tract. <b>Preexisting Conditions:</b> None known <b>Chronic Health Effects:</b> None known	
<b>Carcinogenicity</b>	NTP: Not listed IARC: Not listed OSHA: Not listed
<b>OSHA HCS 2012 CLASSIFICATION:</b> This product does not meet the definition of a hazardous chemical under OSHA's Hazard Communication Standard.	
<b>SIGNAL WORD:</b> CAUTION	
<b>HAZARD STATEMENTS:</b> None required  Percent of product with unknown toxicity: 0.05%	
Continued on next page	

## Ultra-Che® Manganese 6% EDTA

### PRECAUTIONARY STATEMENTS:

**Prevention:** See Section 8 for personal protective equipment.  
**Response:** See Section 4 for first aid information.  
**Storage:** See Section 7 for storage information.  
**Disposal:** See Section 13 for disposal information.

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	% (wt)	CAS Reg. #
Manganese dipotassium EDTA	44.0 – 48.0%	68015-77-0
Dipotassium EDTA	0.2 – 2.0%	2001-94-7
*Ingredients not specifically listed are non-hazardous and/or 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 if irritation occurs.

**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:** Carbon dioxide, dry chemical, water spray or foam

**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:** Asphyxiates such as carbon monoxide may result from combustion. Manganese and nitrogen oxides may form as well.

**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:** None known

### 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. Copper or any of its alloys (brass or bronze) should never be used in any chelate handling system.

**Storage:** Store in cool, dry areas away from children, food and feed products in an area away from incompatible substances. Ensure that storage area is secured. Protect packaging from physical damage. Protect from exposure to fire.

*Continued on next page*

Maintain product above minimum storage temperature. Store this product in stainless steel, fiberglass, polyethylene, or certain

## Ultra-Che® Manganese 6% EDTA

other plastic materials. Aluminum and mild steel tanks are not recommended for storage of this product.

**Minimum Storage Temperature:** 22°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
Manganese compounds	5 mg/m <sup>3</sup>		

**Respiratory Protection:** If conditions are poorly ventilated or exceed the established limits, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for 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:** While not expected to cause skin irritation, the use of chemically protective gloves is recommended to prevent against skin contact.

**Eye Protection:** While not expected to cause eye irritation, the use of chemical safety goggles is recommended to prevent against eye contact. Contact lenses are not protective eye devices.

**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

<b>Physical State:</b>	Liquid	<b>Specific Gravity (H<sub>2</sub>O=1):</b>	1.325 (typical)
<b>Vapor Pressure (mm Hg):</b>	Not determined	<b>Density (lbs/gallon):</b>	11.06 lbs/gallon (typical)
<b>Vapor Density (Air=1):</b>	Not determined	<b>Melting Point/Freezing Point:</b>	Not determined
<b>Solubility in Water (wt %):</b>	Soluble	<b>Boiling Point/Range:</b>	Not determined
<b>Viscosity:</b>	Not determined	<b>pH:</b>	7.5 – 8.5
<b>Appearance and odor:</b>	Pinkish brown liquid	<b>Flash Point:</b>	Not determined

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Over a period of time, the EDTA in this product could be corrosive to copper and its alloys (brass and bronze), aluminum and mild steel.

**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:** Excessive heat

**Incompatible Materials:** Strong oxidizers, copper and its alloys (brass and bronze), aluminum and mild steel.

**Hazardous Decomposition Products:** Asphyxiates such as carbon monoxide may result from combustion. Manganese and nitrogen oxides may form as well.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### ACUTE TOXICITY

**Eye Effects:** May cause mild but temporary eye irritation.

**Skin Effects:** Estimated LD<sub>50</sub> >4,000 mg/kg; May cause mild but temporary skin irritation.

**Acute Inhalation Effects:** No available LC<sub>50</sub> value for classification but based upon component information, this product is not anticipated to be toxic by inhalation.

**Acute Oral Effects:** Estimated LD<sub>50</sub> >4,000 mg/kg

**Specific Target Organ** None known

**Toxicity:**

#### CHRONIC TOXICITY

**Chronic Effects:** None known

**Carcinogenicity:** No component is anticipated to have carcinogenic effects.

**Mutagenicity:** No component is anticipated to have mutagenic effects.

**Teratogenicity:** No component is anticipated to have teratogenic effects.

**Reproductive Toxicity:** No component is anticipated to have effects on the reproductive system.

*Continued on next page*

## Ultra-Che<sup>®</sup> Manganese 6% EDTA

### POTENTIAL HEALTH EFFECTS:

Eyes: May cause mild but reversible eye irritation.

Skin: May cause mild but reversible skin irritation.

Inhalation: May cause minor irritation of the upper respiratory tract.

Ingestion: May cause minor irritation of the digestive tract.

## SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** Not determined

### ECOTOXICITY DATA:

Fish Acute and Prolonged Toxicity: Not determined

Aquatic Invertebrate Acute Toxicity: Not determined

Aquatic Plant Toxicity: Not determined

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.

**UN Number:**  
Not regulated

**IMDG:**  
(Sea) Class 9, Packaging Group III

**Marine Pollutant:** No

**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 listed or exempt from listing on the TSCA inventory.

### **SARA Title III Information:**

Section 302 - Extremely hazardous substances: None listed

Section 311/312 - Hazard Categories: None

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:

None listed

*Continued on next page*

## Ultra-Che® Manganese 6% EDTA

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

Manganese compounds are considered 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)
Manganese dipotassium EDTA (reportable as manganese)	68015-77-0	MA, MN, NJ, PA

**Canadian Domestic Substances List:** All components are listed on the DSL.

**WHMIS Classification:** This product is not controlled under WHMIS as a hazardous substance.

**EU regulation:** Regulation EC1272/2008 (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 10, 2018

**Sections Revised:** 14, 15