

SECTION 1: IDENTIFICATION

Product Name: Ultra-Che® Manganese 6% EDTA
Product ID/Unity #: 1415439, 1415438
Common Name: Liquid manganese fertilizer
Chemical Description: Manganese dipotassium 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, USA	Initial Supplier: WINFIELD UNITED CANADA, ULC 101-302 Wellman Lane Saskatoon, Saskatchewan S7T-0J1, CAN 1-306-249-5112	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)
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FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:
CHEMTREC 1-800-424-9300 (24 hours)

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: 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.

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.
Preexisting Conditions: None known
Chronic Health Effects: None known

Carcinogenicity NTP: Not listed IARC: Not listed OSHA: Not listed

WHMIS 2015 CLASSIFICATION: This product is not considered hazardous according to the criteria set within WHMIS 2015 which includes the amended Hazardous Products ACT (HPA) and the Hazardous Products Regulation (HPR).

SIGNAL WORD: None required

HAZARD STATEMENTS:

None required

Percent of product with unknown toxicity: 0.05%

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
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.

Continued on next page

Ultra-Che[®] Manganese 6% EDTA (CAN)

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. Maintain product above minimum storage temperature. Store this product in stainless steel, fiberglass, polyethylene, or certain other plastic materials. Aluminum and mild steel tanks are not recommended for storage of this product.
Minimum Storage Temperature: -5°C (22°F)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines			
Component:	OSHA PEL	ACGIH TLV	NIOSH REL
Manganese compounds	5 mg/m ³		
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

Physical State:	Liquid	Specific Gravity (H₂O=1):	1.325 (typical)
Vapor Pressure (mm Hg):	Not determined	Melting Point/Freezing Point:	Not determined
Vapor Density (Air=1):	Not determined	Boiling Point/Range:	Not determined
Solubility in Water (wt %):	Soluble	pH:	7.5 – 8.5
Viscosity:	Not determined	Flash Point:	Not determined
Appearance and odor:	Pinkish brown liquid		

Ultra-Che® Manganese 6% EDTA (CAN)

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 LD50 >4,000 mg/kg; May cause mild but temporary skin irritation.

Acute Inhalation Effects: No available LC50 value for classification but based upon component information, this product is not anticipated to be toxic by inhalation.

Acute Oral Effects: Estimated LD50 >4,000 mg/kg

Specific Target Organ Toxicity: None known

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.

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, provincial and local laws and regulations.

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

Ultra-Che® Manganese 6% EDTA (CAN)

SECTION 14: TRANSPORT INFORMATION

DOT (US Ground): Not regulated

IMDG(Sea): Not regulated

IATA (Air): Not regulated

TDG (Canada): Not regulated

SECTION 15: REGULATORY INFORMATION

International Inventories

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

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

SECTION 16: OTHER INFORMATION

NFPA HAZARD RATING	Health	1
	Flammability	0
	Reactivity	0
	4= Severe 3= High 2= Moderate 1= Slight 0= Least	

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