

## Crop Booster® Manganese 5%

## Safety Data Sheet

## NFPA HAZARD RATING

## U.S. TRANSPORT SUMMARY

0	Least		
1	Slight	1	Health
2	Moderate	0	Flammability
3	High	0	Reactivity
4	Severe		

Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information.

MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)

**SECTION 1: IDENTIFICATION** 

Crop Booster® Manganese 5% Product Name:

**EPA Registration #:** Exempt

Product ID/Unity #: 10123662, 16120922 Common Name: Manganese fertilizer **Chemical Description:** Manganese fertilizer

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 Non-Emergency Business Inquiries: 1-855-494-6343

Mon – Fri 8am – 5pm (Central Standard Time) St. Paul, MN 55164-0589

FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:

CHEMTREC 1-800-424-9300 (24 hours)

## SECTION 2: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** Pink liquid. Causes serious eye and skin irritation. Harmful if swallowed.

POTENTIAL HEALTH EFFECTS: **Eves:** Causes serious eve irritation.

Skin: Causes serious skin irritation. **Inhalation:** May cause irritation of the upper respiratory tract.

**Ingestion:** Harmful if swallowed. May cause irritation of the mouth and esophagus.

Preexisting Conditions: Pre-existing respiratory and skin conditions may be aggravated by exposure.

Chronic Health Effects: None known

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

OSHA HCS 2012 CLASSIFICATION: Skin Irritation Category 2; Eye Irritation Category 2A

**SIGNAL WORD: WARNING** 

## HAZARD STATEMENTS:

Causes skin irritation. Causes serious eye irritation.



## Percent of product with unknown toxicity: 1.45%

## PRECAUTIONARY STATEMENTS:

Wash hands thoroughly after handling. Wear eye and face protection and protective gloves. Prevention:

If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated Response:

clothing and wash before reuse. 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.

See section 7 for storage information. Storage: See section 13 for disposal information. Disposal:

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient	% (wt)	CAS Reg. #	
Manganese sulfate	9.0 – 10.0%	7785-87-7	
Manganese citrate	6.0 – 7.0%	10024-66-5	
Manganese salt of dipotassium EDTA	<0.5%	68015-77-0	

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

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 immediately 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 immediately.

Skin: Remove contaminated clothing and wash before re-using. Flush skin with water and then wash with soap

and water. Seek medical attention immediately.

#### **SECTION 5: FIRE FIGHTING MEASURES**

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

Unsuitable Extinguishing Media: Water jet – this may spread the fire

**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: Carbon oxides and nitrogen oxides may be formed under fire conditions.

Unusual Fire and Explosion Hazards: None known

#### 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.

**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.

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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION				
Exposure Guidelines Component:	OSHA PEL	ACGIH TLV	NIOSH REL	
Manganese compounds (as Mn)	5 mg/m3	0.2 mg/m3 (resp.) 0.1 mg/m3 (IHL)	1 mg/m3 (TWA) 3 mg/m3 (ST)	

**Respiratory Protection:** For most well-ventilated conditions, no respiratory protection should be needed. If used in areas where ventilation is inadequate or if a pre-existing respiratory condition exists, 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: Wear chemically protective gloves to prevent exposure to skin.

**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 (H <sub>2</sub> O=1):	1.16 (typical)		
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	9.7 lbs/gallon (typical)		
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined		
Solubility in Water (wt %):	100%	Boiling Point/Range:	Not determined		
Viscosity:	Not determined	pH:	2.2		
Appearance and odor:	Pink liquid	Flash Point:	Not determined		

## SECTION 10: STABILITY AND REACTIVITY

Reactivity: None known

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: Extreme temperatures and contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: No hazardous decomposition products are known.

## **SECTION 11: TOXICOLOGICAL INFORMATION**

ACUTE TOXICITY

**Eye Effects:** Causes serious eye irritation.

Skin Effects: Causes serious skin irritation. Estimated LD50 >5,000 mg/kg.

Acute Inhalation Effects: Estimated LC50 >5.0 mg/L (4 hr)

Acute Oral Effects: May irritation of the mouth and esophagus. Estimated LD50 >10,000 mg/kg

Specific Target Organ None

Toxicity:

CHRONIC TOXICITY

Chronic Effects: None known
Carcinogenicity: None known
Mutagenicity: None known
Teratogenicity: None known
Reproductive Toxicity: None known

POTENTIAL HEALTH EFFECTS:

**Eyes:** Causes serious eye irritation. **Skin:** Causes serious skin irritation.

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

**Ingestion**: Harmful if swallowed. May cause irritation of the mouth and esophagus.

**SECTION 12: ECOLOGICAL INFORMATION** 

**ENVIRONMENTAL SUMMARY:** Not determined

**ECOTOXICITY DATA:** 

Fish Acute and Prolonged Toxicity:

Aquatic Invertebrate Acute Toxicity:

Aquatic Plant Toxicity:

Bird Acute and Prolonged Toxicity:

Honeybee Toxicity:

Not determined
Not determined
Not determined

**ENVIRONMENTAL EFFECTS:** 

Soil Absorption/Mobility:

Persistence and degradability:

Bioaccumulative Potential:

Other adverse effects:

Not determined

Not determined

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.			
IMDG: (Sea)	This product is not regulated by the IMDG code as a hazardous material for shipment by sea.			
IATA: (Air)	This product is not regulated by the IATA as a hazardous material for air shipment.			
TDG: (Canada)	Not determined			

#### **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: None listed

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:

Manganese compounds (<17.5%)

**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)

7785-87-7

Manganese compounds 10024-66-5 MA, MN, NJ, PA

68015-77-0

Canadian Domestic Substances List: Not determined

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

# Crop Booster® Manganese 5%

## **SECTION 16: OTHER**

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Sections Revised: updated to WU