

Max-In® for Cotton NF

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

Safety Data Sheet

NFPA HAZARD RATING

U.S. TRANSPORT SUMMARY

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

Not regulated by the U.S. DOT as a hazardous material in quantities less than 2,475 gallons. See Section 14 for additional information.

SECTION 1: IDENTIFICATION

Product Name: Max-In® for Cotton NF

EPA Registration #: Exempt

Product ID/Unity #: 10135059, 10135060 Common Name: Liquid fertilizer

Chemical Description: Mixture of secondary and micro nutrients

Recommended Uses: Fertilizer product – See product label for 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
St. Paul, MN 55164-0589

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: Amber to light brown liquid with slight organic odor. Causes moderate but temporary eye and skin irritation.

POTENTIAL HEALTH EFFECTS:

Eyes: Causes moderate but temporary eye irritation.

Skin: Causes moderate but temporary skin irritation.

Inhalation: May cause irritation of the upper respiratory tract.

Ingestion: May cause gastric upset if swallowed.

Preexisting Conditions: Preexisting skin conditions may be aggravated by exposure to product.

Chronic Health Effects: Boric acid is a known reproductive toxicant. Prolonged or repeated oral exposure may have a negative

impact on fertility and the reproductive system.

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

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

SIGNAL WORD: WARNING

HAZARD STATEMENTS:

Causes skin irritation.

Causes serious eye irritation.

Suspected of damaging fertility or the unborn child.



Percent of product with unknown toxicity: <7.0%

PRECAUTIONARY STATEMENTS:

Prevention: Wash hands thoroughly after handling. Read product label before use. Do not handle until all safety

precautions have been read and understood. Wear protective gloves, protective clothing, eye protection and

face protection.

Continued on next page

Revision Date: 28 – MAY – 19 1 of 5

Max-In® for Cotton NF

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

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.

Storage: Store in a secured area.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS				
Ingredient	% (wt)	CAS Reg. #		
Boric Acid	7.0 – 8.0%	10043-35-3		
Zinc chloride	3.5 – 4.5%	7646-85-7		
Monoethanolamine	2.5 – 3.0%	141-43-5		
Manganese nitrate	2.0 - 3.0%	10377-66-9		

*Ingredients not specifically listed are non-hazardous and 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 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, carbon dioxide, dry chemical

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 dioxide, carbon monoxide and toxic oxides of sulfur and chlorine. Toxic airborne manganese, boron and zinc compounds may also be present upon decomposition.

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: Spills of this product may require reporting under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) as the product contains zinc chloride with a reportable quantity (RQ) of 1,000 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 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. Do not store in aluminum or metal vessels.

Minimum Storage Temperature: 40°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	
Boric acid (CAS# 10043-35-3)		2 mg/m3 (TWA) 6 mg/m3 (STEL)		
Monoethanolamine (CAS# 141-43-5)	3 ppm, 6 mg/m3 (TWA) 6 ppm, 15 mg/m3 (STEL)	3 ppm (TWA) 6 ppm (STEL)	3ppm, 8 mg/m3 (TWA) 6 ppm, 15 mg/m3 (STEL)	
Zinc chloride (CAS# 7646-85-7)	1 mg/m3 TWA (fume)	1 mg/m3 TWA (fume) 2 mg/m3 STEL (fume)	1 mg/m3 TWA (fume) 50 mg/m3 IDLH (fume)	
Manganese inorganic compounds	5 mg/m3 (CEIL)	0.2 mg/m3 TWA	1 mg/m3 TWA 3 mg/m3 ST	

Respiratory Protection: For most well-ventilated conditions, no respiratory protection should be needed. If airborne concentrations exceed exposure limits, use a NIOSH approved air-purifying respirator with cartridges/canisters approved for general particulates and organic vapors.

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: To avoid contact with eyes, wear chemical safety 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 ₂ O=1):	1.18 (typical)		
Vapor Pressure (mm Hg):	Not determined	Density (lbs/gallon):	9.8 lbs/gallon (typical)		
Vapor Density (Air=1):	Not determined	Melting Point/Freezing Point:	Not determined		
Solubility in Water (wt %):	Miscible	Boiling Point/Range:	Not determined		
Viscosity:	Not determined	pH:	4.7 – 4.8		
Appearance and odor:	Amber to light brown liquid with	Flash Point:	Not applicable		
	slight organic odor				

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: Excessive heat Incompatible Materials: Strong oxidizers

Hazardous Decomposition Products: Under fire conditions: Carbon dioxide, carbon monoxide and toxic oxides of sulfur. Toxic

airborne manganese, boron and zinc compounds may also be present upon decomposition.

Max-In® for Cotton NF

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY

Eye Effects: Likely to cause moderate but temporary eye irritation based upon ingredient information. Skin Effects: Likely to cause moderate but temporary skin irritation based upon ingredient information.

Estimated LD50 >8,000 mg/kg.

Acute Inhalation Effects: May cause irritation of the upper respiratory tract.

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

Specific Target Organ

Toxicity:

None known

CHRONIC TOXICITY

Chronic Effects: None known

Carcinogenicity: None of the components are anticipated to have a carcinogenic effect. **Mutagenicity:** None of the components are anticipated to have a mutagenic effect.

Teratogenicity: Boric acid, if ingested in quantities greater than 21.8 mg/kg of body weight per day, may cause

damage to an unborn child which in test animals has shown to correct itself in the post natal

period.

Reproductive Toxicity: Boric acid is a known reproductive toxicant. Prolonged or repeated oral exposure may have a

negative impact on fertility and the reproductive system. No data is available on the mixture.

POTENTIAL HEALTH EFFECTS:

Eyes: Causes moderate but temporary eye irritation.

Skin: Causes moderate but temporary skin irritation.

Inhalation: May cause irritation of the upper respiratory tract.

Ingestion: May cause gastric upset if swallowed.

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: 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 in quantities less than 2,475 gallons. For quantities greater than 2,475 gallons: UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc chloride), 9, PG III, RQ
IMDG: (Sea)	This product is not regulated by the IMDG 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)	This product is not regulated by the TDG as a hazardous material for ground transport.

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), Delayed (Chronic)

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 (<3.0%); Zinc compounds (<4.5%)

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 to be CERCLA hazardous substances through no RQ is established.

Zinc chloride has an RQ of 1,000 lbs reached with 2,475 gallons of product.

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 NameCAS #State(s)Manganese nitrate10377-66-9NJMonoethanolamine141-43-5MA, NJ, PAZinc chloride7646-85-7MA, MN, NJ, PA

Canadian Domestic Substances List: Not determined

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

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: May 28, 2019 Supersedes document dated: July 19, 2013

Sections Revised: All