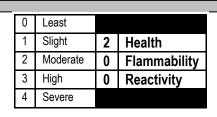


## NFPA HAZARD RATING



# U.S. TRANSPORT SUMMARY

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® Vine & Vegetable or Max-In® Vine & Vegetable with Micronutrients		
EPA Registration #:	Exempt		
Product ID/Unity #:	10127699, 10135056, 10135057, 10136124, 10136290		
Common Name:	Liquid fertilizer		
Chemical Description:	Nixture 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:	MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)		
WINFIELD SOLUTIONS,	LLC		
P. O. Box 64589	Non-Emergency Business Inquiries: 1-855-494-6343		
St. Paul, MN 55164-0589 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: HAZ	ZARDS IDENTIFICATI	ON
EMERGENCY OVERV	IEW: Amber to light brown liquid w	ith slight organic odor. Causes r	moderate but temporary eye and skin
irritation.			
POTENTIAL HEALTH	EFFECTS:		
	e but temporary eye irritation.		
Skin: Causes modera	te but temporary skin irritation.		
Inhalation: May cause	irritation of the upper respiratory tra	act.	
Ingestion: May cause	gastric upset if swallowed.		
<b>Preexisting Condition</b>	s: Preexisting skin conditions may	be aggravated by exposure to p	roduct.
		e toxicant. Prolonged or repeat	ted oral exposure may have a negative
impact on fertility and t	ne reproductive system.		
Carcinogenicity	NTP: Not listed	IARC: Not listed	OSHA: Not listed
OSHA HCS 2012 CLA	SSIFICATION: Skin Irritation Categ	ory 2; Eye Irritation Category 2A	A; Reproductive Toxicity Category 2
SIGNAL WORD: WAR	NING		
HAZARD STATEMEN	TS:		
Causes skin irritation.			
Causes serious eye irri	tation.		
Suspected of damaging	g fertility or the unborn child.	· · · ·	
Percent of product wi	th unknown toxicity: <7.0%	$\mathbf{\vee}$	V
PRECAUTIONARY ST	ATEMENTS:		
precau	hands thoroughly after handling. Re tions have been read and understo rotection.		o not handle until all safety tective clothing, eye protection and

Continued on next page

# Max-In<sup>®</sup> Vine & Vegetable

Response:If on skin: Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated<br/>clothing and wash before reuse. If in eyes: Rinse cautiously with water for 15 minutes. Remove contact lenses,<br/>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.

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

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
• •	· · · · · · · · · · · · · · · · · · ·	ng respirator with cartridges	s/canisters approved for
Protective Gloves: Wear chemically protective Eye Protection: To avoid contact with eyes lenses are not protective eye devices. An experience of the second	s, wear chemical safety goggle mergency eyewash or water s	es or safety glasses and ful	cessible to the work area.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Physical State:	Liquid	Specific Gravity (H <sub>2</sub> 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 slight organic odor	Flash Point:	Not applicable

#### **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.

	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	None known
Toxicity:	
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 EFFE	CTS:
Eyes: Causes moderate but	
Skin: Causes moderate but	
	ion of the upper respiratory tract.
Ingestion: May cause gastri	c upset if swallowed.

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 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 guantity (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 Name** CAS# State(s) Manganese nitrate 10377-66-9 NJ Monoethanolamine 141-43-5 MA. NJ. PA Zinc chloride 7646-85-7 MA, MN, NJ, PA

Canadian Domestic Substances List: All components are listed on the DSL. WHMIS Classification: D2A

#### **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.

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