

# **Safety Data Sheet**

# Max-In Vine & Vegetable with Micronutrients (CAN)

**SECTION 1: IDENTIFICATION** 

Product Name: Max-In Vine & Vegetable with Micronutrients

Product ID/Unity #: 10127699 Common Name: Liquid fertilizer

Chemical Description: Mixture of secondary and micro nutrients

Recommended Uses: Fertilizer product – See product label for full directions for use. See product label for any potential restrictions on use. Restrictions for Use:

Manufactured for: **Initial Supplier:** 

WINFIELD SOLUTIONS, LLC

WINFIELD UNITED CANADA, ULC

MEDICAL EMERGENCY TELEPHONE NUMBER: 101-302 Wellman Lane 1-877-424-7452 (24hrs)

P. O. Box 64589 St. Paul, MN 55164-0589, USA Saskatoon, Saskatchewan S7T-0J1, CAN

1-306-249-5112

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.

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

CLASSIFICATION: Skin Irritation Category 2; Eye Irritation Category 2A; Reproductive Toxicity Category 2

**SIGNAL WORD: WARNING** 

#### **HAZARD STATEMENTS:**

Causes skin irritation.

Causes serious eve 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 the entire label before product use. Do not handle until all safety

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

protection.

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. If exposed or concerned: Get medical

attention.

Store in a secured area. Storage:

Disposal: Dispose of contents/container in accordance with Federal, provincial 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		
See Section 8 for exposure limits.				

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**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

erson.

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.

# **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: 4°C (40°F)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION						
Exposure Guidelines Component:	OSHA PEL	ACGIH TLV	NIOSH REL/IDLH			
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 airborn

concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is

preferred.

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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

Specific Gravity (H<sub>2</sub>O=1): Physical State: Liquid 1.18 (typical) Vapor Pressure (mm Hg): Melting Point/Freezing Point: Not determined Not determined Vapor Density (Air=1): Not determined Boiling Point/Range: Not determined Solubility in Water (wt %): Miscible 4.7 - 4.8pH: Not determined Flash Point: Viscosity: Not applicable

Appearance and odor: Amber to light brown liquid with

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.

#### 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

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

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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: Not determined **Aquatic Invertebrate Acute Toxicity:** Not determined

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Aquatic Plant Toxicity:

Bird Acute and Prolonged Toxicity:

Honeybee Toxicity:

Not determined

Not determined

**ENVIRONMENTAL EFFECTS:** 

Soil Absorption/Mobility:Not determinedPersistence and degradability:Not determinedBioaccumulative Potential:Not determinedOther 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.

	SECTION 14: TRANSPORT INFORMATION
DOT (U.S.A. Ground):	This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment in quantities less than 9,368 litres (2,475 gallons).  For quantities greater than 9,368 litres (2,475 gallons):  UN3082, Environmentally hazardous substance, liquid, n.o.s. (Zinc chloride), 9, PG III, RQ
IMDG (Sea) :	Not Regulated
IATA (Air) :	Not Regulated
TDG (Canada) :	Not Regulated

## **SECTION 15: REGULATORY INFORMATION**

#### International Inventories

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

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

## **US Federal Regulations**

**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 454 kg (1,000 lbs) reached with 9,368 litres (2,475 gallons) of product.

SECTION 16: OTHER INFORMATION					
	NFPA HAZARD RATING	Health Flammability Reactivity	0 0		
			2= Moderate 1= Slight 0= Least		

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