

Safety Data Sheet

SECTION 1: IDENTIFICATION			
Product Name:	Max-In	™ Boron 8%	
Product ID/Unity #:	151055	56, 1510555	
Common Name:	Liquid boron fertilizer		
Chemical Description:	Liquid boron 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:		Initial Supplier:	
WINFIELD SOLUTIONS, L	LC	WINFIELD UNITED CANADA, ULC	MEDICAL EMERGENCY TELEPHONE NUMBER:
P. O. Box 64589		101-302 Wellman Lane	1-877-424-7452 (24hrs)
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)

		ZARDS IDENTIFICATI	
	OVERVIEW: Tan to brown liquid with slight ami	ne odor. Harmful if inhaled. Cau	uses eye and skin irritation.
	EALTH EFFECTS:		
	noderate but reversible eye irritation.		
	moderate but reversible skin irritation. Longer d		
	alation may cause irritation of the upper respirat	ory tract and can lead to central	nervous system depression.
	r cause gastric upset if swallowed. onditions: Preexisting respiratory conditions ma	who agaravated by avpacure to	mict
	Effects: Boric acid is a known reproductive to		
	reproductive system. Prolonged or repeated inf		
lungs.	eproductive system. Troibliged of repeated init	lalation of product may have an	impact on the central nervous system and/or
	nicity NTP: Not listed	IARC: Not listed	OSHA: Not listed
	LASSIFICATION: Acute Inhalation Toxicity Cat	enory 4. Eve Irritation Category	2B: Skin Irritation Category 2: Reproductive
Toxicity Catego	ry 2; Specific Target Organ Toxicant – Repeate	d Exposure Category 2	2D, okin initiation outegory 2, reproductive
SIGNAL WORD			
HAZARD STAT			
Harmful if inhale			
Causes eye irrit			
Causes skin irrit			
Suspected of da	amaging fertility or the unborn child.		
May cause dam	nage to kidneys, liver and central nervous syster	n through	
prolonged or rep	peated ingestion or inhalation.	-	• •
Percent of prod	duct with unknown toxicity: 0.05%		
	ARY STATEMENTS:		
Prevention:		itdoors or in a well-ventilated are	a Wash hands thoroughly after handling
r revention.	Do not breathe mist or spray. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Wear protective gloves, protective clothing, eye protection and face protection. Read entire label before product use.		
Response:	Do not handle until all safety precautions have been read and understood. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-		
neoponse.	7452) or doctor for treatment advice if you feel unwell. If in eyes: Rinse cautiously with water for 15 minutes. Remove		
	contact lenses, if present and easy to do.		
	skin: Wash with plenty of water. If skin irr		
	wash it before reuse. If exposed or conc		
Storage:	Store in a secured area.		
Disposal	Dispose of contents/container in accordan	co with Fodoral provincial and l	ocal regulations

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS			
Ingredient	% (wt)	CAS Reg. #	
Boric acid	45.72%	10043-35-3	
Monoethanolamine	16.0%	141-43-5	
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 porcen	
Eyes:	person. 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, water fog or foam

Unsuitable Extinguishing Media: Water iet

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: Toxic gases may be formed in a fire situation. Carbon monoxide and other asphyxiates 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.

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 2 mg/m3 (TWA); Boric acid (CAS #10043-35-3) 6 mg/m3 (STEL) Monoethanolamine (CAS #141-43-5) 3 ppm, 6 mg/m3 (TWA) 3 mg/m3 (TWA) 3 ppm, 8 mg/m3 (TWA) 6 mg/m3 (STEL) 6 ppm, 15 mg/m3 (STEL) 6ppm, 15 mg/m3 (STEL) 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 organic vapors.

Continued on next page

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: Vapor Pressure (mm Hg): Vapor Density (Air=1): Solubility in Water (wt %): Viscosity: Appearance and odor: Liquid Not determined Not determined Completely soluble Not determined Tan to brown liquid with slight amine odor Specific Gravity (H₂O=1): Freezing Point: Boiling Point/Range: pH: Flash Point:

1.27 (typical) 2.22 °C (28°F) Not determined 8.0 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: Excessive heat and freezing temperatures

Incompatible Materials: Strong acids and bases

Hazardous Decomposition Products: Oxides of nitrogen and other chemicals may be formed in a fire situation. Carbon monoxide and other asphyxiates may form as well.

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY	
Eye Effects:	Causes moderate but reversible eye irritation.
Skin Effects:	Causes moderate but reversible skin irritation. Estimated LD50 = 2,494 mg/kg
Acute Inhalation Effects:	Inhalation may cause irritation of the upper respiratory tract and can lead to central nervous system depression if repeatedly exposed. Estimated LC50 = 3 mg/L
Acute Oral Effects:	Estimated LD50 = 3,597 mg/kg
Specific Target Organ	Kidneys, liver, central nervous system
Toxicity:	
CHRONIC TOXICITY	
Chronic Effects:	Prolonged or repeated oral exposure may have a negative impact on fertility and the reproductive system. Prolonged or repeated inhalation of product may have an impact on the central nervous system and/or lungs.
Carcinogenicity:	No component is anticipated to have carcinogenic effects.
Mutagenicity:	No component is anticipated to have mutagenic effects.
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.
POTENTIAL HEALTH EFFECTS:	

Eyes: Causes moderate but reversible eye irritation.

Skin: Causes moderate but reversible skin irritation. Longer dermal exposure results in more significant irritation.

Inhalation: Inhalation may cause irritation of the upper respiratory tract and can lead to central nervous system depression.

Ingestion: May cause gastric upset if swallowed.

SECTION 12: ECOLOGICAL INFORMATION

ENVIRONMENTAL SUMMARY: This prod	uct is not anticipated to be acutely toxic to aquatic organisms based upon component data.
ECOTOXICITY DATA:	
Fish Acute and Prolonged Toxicity:	Estimated 96 hr LC50 = 1,375 mg/L
Aquatic Invertebrate Acute Toxicity:	Estimated 48 hr EC50 for Daphnia magna = 151 mg/L
Aquatic Plant Toxicity:	Estimated 72 hr LC50 for algae = 48 mg/L
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, provincial and local laws and regulations.

SECTION 14: TRANSPORT INFORMATION DOT: Not regulated IMDG: Not regulated IATA: Not regulated TDG: Not regulated

SECTION 15: REGULATORY INFORMATION

International Inventories

TSCA Inventory: All components are listed 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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