

| NFPA HAZARD RATING |          |   |              | U.S. TRANSPORT SUMMARY                                                                            |  |
|--------------------|----------|---|--------------|---------------------------------------------------------------------------------------------------|--|
| 0                  | Least    |   |              | Not regulated by the U.S. DOT as a hazardous material. See Section 14 for additional information. |  |
| 1                  | Slight   | 1 | Health       |                                                                                                   |  |
| 2                  | Moderate | 0 | Flammability |                                                                                                   |  |
| 3                  | High     | 0 | Reactivity   |                                                                                                   |  |
| 4                  | Severe   |   |              |                                                                                                   |  |

| SECTION 1: IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Name:</b> Max-In® Boron<br><b>EPA Registration #:</b> Exempt<br><b>Product ID/Unity #:</b> 10126475, 10126477, 10126478, 10136399<br><b>Common Name:</b> Liquid boron fertilizer<br><b>Chemical Description:</b> Liquid boron fertilizer<br><b>Recommended Uses:</b> Fertilizer product – See product label for full directions for use.<br><b>Restrictions for Use:</b> See product label for any potential restrictions on use. |                                                                                                                                                                                 |
| <b>Manufactured For:</b><br><b>WINFIELD SOLUTIONS, LLC</b><br>P. O. Box 64589<br>St. Paul, MN 55164-0589                                                                                                                                                                                                                                                                                                                                     | <b>MEDICAL EMERGENCY TELEPHONE NUMBER: 1-877-424-7452 (24hrs)</b><br><br><b>Non-Emergency Business Inquiries: 1-855-494-6343</b><br>Mon – Fri 8am – 5pm (Central Standard Time) |
| <b>FOR EMERGENCY, SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT, CALL:</b><br><b>IN THE U.S. - CHEMTREC 1-800-424-9300 (24 hours)</b><br><b>IN CANADA – PROSAR 1-877-762-4573 (24 hours)</b>                                                                                                                                                                                                                                                      |                                                                                                                                                                                 |

| SECTION 2: HAZARDS IDENTIFICATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                             |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
| <b>EMERGENCY OVERVIEW:</b> Tan to brown liquid with slight amine odor. May be harmful if inhaled. Causes eye and skin irritation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                             |
| <b>POTENTIAL HEALTH EFFECTS:</b><br><b>Eyes:</b> Causes moderate but reversible eye irritation.<br><b>Skin:</b> Causes moderate but reversible skin irritation. Longer dermal exposure results in more significant irritation.<br><b>Inhalation:</b> Inhalation may cause irritation of the upper respiratory tract and can lead to central nervous system depression.<br><b>Ingestion:</b> May cause gastric upset if swallowed.<br><b>Preexisting Conditions:</b> Preexisting respiratory conditions may be aggravated by exposure to mist.<br><b>Chronic Health Effects:</b> Boric acid is a known reproductive toxicant. 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. |                                                                                             |
| <b>Carcinogenicity</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | NTP: Not listed                      IARC: Not listed                      OSHA: Not listed |
| <b>OSHA HCS 2012 CLASSIFICATION:</b> Acute Inhalation Toxicity Category 4; Eye Irritation Category 2B; Skin Irritation Category 2; Reproductive Toxicity Category 2; Specific Target Organ Toxicant – Repeated Exposure Category 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                             |
| <b>SIGNAL WORD:</b> WARNING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                             |
| <b>HAZARD STATEMENTS:</b><br>Harmful if inhaled.<br>Causes eye irritation.<br>Causes skin irritation.<br>Suspected of damaging fertility or the unborn child.<br>May cause damage to kidneys, liver and central nervous system through prolonged or repeated ingestion or inhalation.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                             |
| <b>Percent of product with unknown toxicity:</b> 0.05%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                             |



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**PRECAUTIONARY STATEMENTS:**

**Prevention:** Avoid breathing 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. Do not handle until all safety precautions have been read and understood.

**Response:** **If inhaled:** Remove person to fresh air and keep comfortable for breathing. Call a poison control center (1-877-424-7452) 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. Continue rinsing. If eye irritation persists: Get medical attention. **If on skin:** Wash with plenty of water. If skin irritation occurs: Get medical attention. Take off contaminated clothing and wash before reuse. **If exposed or concerned:** 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                                                                                                                                   | 42.0 – 48.0% | 10043-35-3 |
| Monoethanolamine                                                                                                                             | 14.0 – 18.0% | 141-43-5   |
| *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:** Carbon dioxide, dry chemical, water spray, water fog or foam

**Unsuitable Extinguishing Media:** Water jet

**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:** 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/m <sup>3</sup> (TWA);<br>6 mg/m <sup>3</sup> (STEL) |                                                                       |
| Monoethanolamine (CAS #141-43-5) | 3 ppm, 6 mg/m <sup>3</sup> (TWA)<br>6 ppm, 15 mg/m <sup>3</sup> (STEL) | 3 mg/m <sup>3</sup> (TWA)<br>6 mg/m <sup>3</sup> (STEL)  | 3 ppm, 8 mg/m <sup>3</sup> (TWA)<br>6ppm, 15 mg/m <sup>3</sup> (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.

**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

|                                    |                                            |                                             |                          |
|------------------------------------|--------------------------------------------|---------------------------------------------|--------------------------|
| <b>Physical State:</b>             | Liquid                                     | <b>Specific Gravity (H<sub>2</sub>O=1):</b> | 1.27 (typical)           |
| <b>Vapor Pressure (mm Hg):</b>     | Not determined                             | <b>Density (lbs/gallon):</b>                | 10.55 – 10.65 lbs/gallon |
| <b>Vapor Density (Air=1):</b>      | Not determined                             | <b>Freezing Point:</b>                      | 28°F                     |
| <b>Solubility in Water (wt %):</b> | Completely soluble                         | <b>Boiling Point/Range:</b>                 | Not determined           |
| <b>Viscosity:</b>                  | Not determined                             | <b>pH:</b>                                  | 8.0                      |
| <b>Appearance and odor:</b>        | Tan to brown liquid with slight amine odor | <b>Flash Point:</b>                         | 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

|                                        |                                                                                                                                                                 |
|----------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Eye Effects:</b>                    | Causes moderate but reversible eye irritation.                                                                                                                  |
| <b>Skin Effects:</b>                   | Causes moderate but reversible skin irritation. Estimated LD50 = 2,494 mg/kg                                                                                    |
| <b>Acute Inhalation Effects:</b>       | 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 |
| <b>Acute Oral Effects:</b>             | Estimated LD50 = 3,597 mg/kg                                                                                                                                    |
| <b>Specific Target Organ Toxicity:</b> | Kidneys, liver, central nervous system                                                                                                                          |

### CHRONIC TOXICITY

|                               |                                                                                                                                                                                                                     |
|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chronic Effects:</b>       | 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. |
| <b>Carcinogenicity:</b>       | No component is anticipated to have carcinogenic effects.                                                                                                                                                           |
| <b>Mutagenicity:</b>          | No component is anticipated to have mutagenic effects.                                                                                                                                                              |
| <b>Teratogenicity:</b>        | 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.               |
| <b>Reproductive Toxicity:</b> | 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:

|                    |                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| <b>Eyes:</b>       | Causes moderate but reversible eye irritation.                                                                    |
| <b>Skin:</b>       | Causes moderate but reversible skin irritation. Longer dermal exposure results in more significant irritation.    |
| <b>Inhalation:</b> | Inhalation may cause irritation of the upper respiratory tract and can lead to central nervous system depression. |
| <b>Ingestion:</b>  | May cause gastric upset if swallowed.                                                                             |

## SECTION 12: ECOLOGICAL INFORMATION

**ENVIRONMENTAL SUMMARY:** This product is not anticipated to be acutely toxic to aquatic organisms based upon component data.

### ECOTOXICITY DATA:

|                                             |                                                          |
|---------------------------------------------|----------------------------------------------------------|
| <b>Fish Acute and Prolonged Toxicity:</b>   | Estimated 96 hr LC50 = 1,375 mg/L                        |
| <b>Aquatic Invertebrate Acute Toxicity:</b> | Estimated 48 hr EC50 for <i>Daphnia magna</i> = 151 mg/L |
| <b>Aquatic Plant Toxicity:</b>              | Estimated 72 hr LC50 for algae = 48 mg/L                 |
| <b>Bird Acute and Prolonged Toxicity:</b>   | Not determined                                           |
| <b>Honeybee Toxicity:</b>                   | Not determined                                           |

### ENVIRONMENTAL EFFECTS:

|                                       |                |
|---------------------------------------|----------------|
| <b>Soil Absorption/Mobility:</b>      | Not determined |
| <b>Persistence and degradability:</b> | Not determined |
| <b>Bioaccumulative Potential:</b>     | Not determined |
| <b>Other adverse effects:</b>         | Not determined |

## SECTION 13: DISPOSAL CONSIDERATIONS

|                              |                                                                                                                                           |
|------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Waste:</b>                | Dispose of in accordance with applicable Federal, state and local laws and regulations.                                                   |
| <b>Container:</b>            | Triple rinse and recycle the container or dispose of in accordance with Federal, state and local laws and regulations.                    |
| <b>RCRA Characteristics:</b> | 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**

|                          |                                                                                                                     |
|--------------------------|---------------------------------------------------------------------------------------------------------------------|
| <b>DOT:<br/>(Ground)</b> | This product is not regulated by the U.S. Department of Transportation as a hazardous material for ground shipment. |
| <b>IMDG:<br/>(Sea)</b>   | This product is not regulated by the IMDG code as a hazardous material for shipment by sea.                         |
| <b>IATA:<br/>(Air)</b>   | This product is not regulated by the IATA as a hazardous material for air shipment.                                 |
| <b>TDG:<br/>(Canada)</b> | This product is not regulated by the TDG as a hazardous material for ground shipment.                               |

**SECTION 15: REGULATORY INFORMATION**

**TSCA Inventory:** All components are listed 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:

None listed

**CERCLA -** This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA):

None listed

**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)   |
|------------------|----------|------------|
| Monoethanolamine | 141-43-5 | MA, 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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**Sections Revised:** 1,12