

MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION

Trade Name (as labeled): Agri Plex Liquid Boron 10%

Common Name: Liquid Fertilizer

Distributed By:

Agri-Business Technologies, Inc.

229 W. Third Avenue

Albany, GA 31707

Business Phone: 229-347-0987

Emergency Phone: Chemtrac– (800) 535-5053

Date of Preparation: February, 2008

Updated November, 2010

SECTION 2. COMPOSITION AND INFORMATION ON INGREDIENTS

Exposure Limits In Air NA

Chemical Name Boric Acid (H_3BO_3) and Water (H_2O)

CAS # 26038-87-9

ACGIH None

TVL (ppm) None

OSHA PEL (ppm) None

SECTION 3. EMERGENCY/HAZARDS OVERVIEW

Emergency Overview: Colorless to faint yellow liquid with a fishy amine-like odor. Mild irritant. Avoid contact with strong oxidizers and acids. Not D.O.T. regulated.

Symptoms Of Over Exposure:

Eyes: May cause severe irritation with prolonged exposure.

Skin: Prolonged or repeated exposure may cause skin irritation.

Inhalation: May cause irritation of nasal passages and throat with prolonged exposure.

Ingestion: Boric Acid is a human poison by ingestion. Get medical attention immediately.

Injection: Boric Acid is poisonous by subcutaneous, intravenous, and intraperitoneal routes.

Hazardous Material Information Rating System:

(0 = least; 1 = slight; 2 = moderate; 3 = high; 4 = extreme)

Health (blue) 1

Flammability (red) 0

Reactivity (yellow) 0

SECTION 4. FIRST-AID MEASURES

If Inhaled: Remove to fresh air. If breathing becomes difficult, contact a medical physician. Give artificial respiration if victim is not breathing and obtain immediate medical attention.

If Ingested: Call physician or Poison Control Center immediately for most current information. Dilute with large amounts of water. Do not induce vomiting unless directed to do so by a medical professional. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If vomiting occurs, keep head lower than hips to prevent introduction of fluid into the lungs.

In Case Of Skin Contact: Wash thoroughly with soap and water. Remove contaminated clothing and wash before reuse. Seek medical attention if skin becomes irritated.

In Case Of Eye Contact: Flush immediately with water for at least 15 minutes, lifting the upper and lower eyelids occasionally. Call a physician if eye irritation persists. Victims of chemical exposure and all rescuers must be taken for medical attention. Take a copy of label and MSDS to physician or health professional with victim.

SECTION 5. FIRE-FIGHTING MEASURES

Flash Point: None.

Test Method: Not pertinent.

LEL Flammable Limits: Not pertinent.

UEL Flammable Limits: Not pertinent.

Autoignition Temperature: Not pertinent.

Extinguishing Media: Considered non-combustible; use medium appropriate to surrounding fire.

Unusual Fire and Explosion Hazards: None.

Special Firefighting Procedures: Wear positive pressure, self-contained breathing apparatus (SCBA) and goggles. Avoid exposure to smoke or fumes. Contain any liquid runoff.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Spill And Leak Response: For small or incidental spills, the minimum personal protective equipment should be rubber gloves, rubber apron, and chemical goggles. Uncontrolled releases should be responded to by trained personnel using pre-planned procedures. Proper protective equipment should be used. Gas masks or SCBA gear may be required. For large spills, contain by diking with soil or other non-combustible absorbent material. Keep material out of sewers, storm drains, and surface waters. Comply with all applicable government regulations on spill reporting, handling, and waste disposal.

SECTION 7. STORAGE AND HANDLING

Storage Practices: Store in a cool (above 32°F), dry, well-ventilated area away from incompatible materials. This product should be stored in tanks constructed of stainless steel, fiberglass, polypropylene, or polyethylene. Valves should be inspected on a regular basis and replaced as needed to prevent leakage. Transfer equipment (valves, pumps, etc.) should be constructed of stainless steel or chemical-resistant plastic.

Handling Practices: Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Wash with soap and water after handling.

Work/Hygiene Practices: Avoid getting chemicals ON YOU or IN YOU. Wash hands with soap and water after handling chemicals. Do not eat or drink around or while handling chemicals. Keep out of reach of children.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Ventilation/Engineering Controls: Use with adequate ventilation.

Respiratory Protection: If work conditions generate vapors or mist, wear a NIOSH approved respirator appropriate for those emission levels. Appropriate respirator may be a full facepiece respirator, a self-contained breathing apparatus in the pressure demand mode, or a supplied-air respirator.

Eye Protection: Chemical dust/splash goggles or full-face shield to prevent eye contact. As a general rule, contact lenses should not be worn when working with chemicals because they contribute to the severity of an eye injury.

Hand Protection: Rubber gloves with gauntlets.

Body Protection: Use body protection appropriate for task. Chemical-resistant coveralls and rubber aprons are generally acceptable.

Other Protective Measures: An eyewash and safety shower should be nearby and ready for use

If inhaled: use artificial respiration if victim is not breathing and obtain immediate medical attention.

If Ingested: Call physician or Poison Control Center immediately for most current information. Dilute with large amounts of water. Do not induce vomiting unless directed to do so by a medical professional. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. If vomiting occurs, keep head lower than hips to prevent introduction of fluid into the lungs.

In Case Of Skin Contact: Wash thoroughly with soap and water. Remove contaminated

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to faint yellow liquid.

Boiling Point: >200 °F.

Odor: Fishy amine-like odor. **Melting Point:** NA.

pH: 8.0 to 9.0 **Freezing Point:** NA.

Water Solubility: 100%. **Vapor Pressure:** NA.

Density: 11.0 lbs/gallon. **Vapor Density (air = 1):** NA.

Specific Gravity (H₂O = 1): 1.319 NA = Not Available.

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions To Avoid: Excessive heat.

Incompatibility: Strong oxidizing agents, acids.

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute Effects:

Eyes: Mild irritant. May cause redness and/or burning.

Skin: Mild irritant, especially with prolonged exposure. May cause skin ulceration.

Ingestion: May cause stomach cramps and/or nausea.

Inhalation: None expected, but aerosol mist may cause moderate irritation of nose and throat. May cause dry coughing, wheezing, or chest tightness.

Chronic Effects: None known.

SECTION 12. ECOLOGICAL INFORMATION

Environmental Stability: Boron is stable in the environment. Its transport in the environment depends upon the exact compound, the pH, the soil type, and the salinity. All work practices should be aimed at eliminating environmental contamination.

Effect Of Material On Plants/Animals: Animal studies have shown that boric acid is poisonous by ingestion, intravenous, subcutaneous, and intraperitoneal routes. Boron has been shown to bioaccumulate, though the amount of boron in biota is a small reservoir compared to that in soil, sediment, or water.

Effect Of Material On Aquatic Life: Not known.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate lakes, streams, ponds, estuaries, oceans, or other waters by discharge of waste effluents or equipment rinsate. Dispose of waste effluents according to federal, state, and local regulations. Chemical additions or other alterations of this product may invalidate any disposal information in this MSDS.

SECTION 14. TRANSPORTATION INFORMATION

Not regulated by DOT.

Freight Class: Compound, Fertilizer, Liquid, (NMFC Item 68140, sub 6, Class 70)

SECTION 15. REGULATORY INFORMATION

SARA Reporting Requirements: This material contains no toxic chemicals subject to the reporting requirements of Section 313, Title III of the Superfund Amendments and Reauthorization Act of 1986.

California Proposition 65: WARNING. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

SECTION 16. OTHER INFORMATION

The information and recommendations herein are taken from data contained in independent, industry recognized references including NIOSH, OSHA, ANSI, and NFPA. This information is, as of date listed above, true and accurate to the best of Agri-Business Technologies' knowledge. It is intended for use by persons possessing technical knowledge and at their own discretion and risk. Since actual use is beyond our control, no guarantee, express or implied, and no liability is assumed by Agri-Business Technologies, Inc. the use of this information. Actual conditions of use and handling may require consideration