



MATERIAL SAFETY DATA SHEET

SECTION 1. PRODUCT AND COMPANY INFORMATION

Trade Name (as labeled): Boron 10

Recommended Use: Refer to product label

Manufactured By: AgroPlantae, Inc.
2976 S Peach Ave
Fresno CA 93725

Business Phone: (559) 498-0388

Emergency Phone: CHEMTREC (800) 424-9300

Date of Preparation: March 2015

SECTION 2. Hazard(s) identification

Emergency Overview: Colorless liquid to slight yellow, 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 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS #	Exposure Limits In Air	
		ACGIH TVL (ppm)	OSHA PEL (ppm)
Boric Acid (H ₃ BO ₃)	26038-87-9	N/A	N/A
Water (H ₂ O)	7732-18-5	N/A	N/A

NE = Not Established NA = Not Available

SECTION 4. FIRST-AID MEASURES

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

If Ingested: Call physician or Poison Control Center immediately for most current information. Dilute with milk, egg whites, or water. **Do not induce vomiting.**

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

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.

Indication of immediate medical attention and special treatment needed: Treat symptomatically.

General Information: 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: Not flammable.

Test Method: Not flammable.

LEL Flammable Limits: Not flammable.

UEL Flammable Limits: Not flammable.

Autoignition Temperature: Not flammable.

Extinguishing Media: Non-flammable liquid. Use media suitable to extinguish source of 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 with ammonia canister or SCBA gear may be required. For large spills, contain by diking with soil or other non-combustible absorbent material. Dilution with water will reduce the release of ammonia vapors. 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. 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 should be constructed of stainless steel or chemical-resistant plastic. Do not store in aluminum vessels.

Handling Practices: Keep away from incompatible materials. Do not breathe mists. 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.

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, an SCBA 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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid	Appearance: Clear to slight yellow liquid
Upper/lower flammability or explosive limits: NA	Odor: Amine like odor
Vapor Pressure: NA	Odor threshold: NA
Vapor Density (air = 1): NA	pH: (5% solution) 8.0-9.0
Relative Density: 11.24 lbs/gallon	Melting point: NA
Freezing Point: <32°F	Water Solubility: 100%
Initial Boiling point and boiling range: >212°F	Flash Point: NA
Evaporation rate: NA	Flammability: NA
Partition coefficient: NA	Auto-ignition temperature: NA
Decomposition temperature: NA	Viscosity: NA
Specific Gravity (H₂O = 1): 1.34	NA= Not Available

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions to Avoid: Excessive Heat

Incompatibility: Strong oxidizer agents, acids.

Hazardous Polymerization: Will not occur.

SECTION 11. TOXICOLOGICAL INFORMATION

Toxicity Data: Not Available

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

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes.

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

This material is not regulated by US DOT for highway transportation. Other shipping information: Fertilizing Compounds (Manufactured), Liquid, NMFC Item 68140 Sub 6, LTL Class 70.

SECTION 15. REGULATORY INFORMATION

SARA Reporting Requirements: SARA, TITLE III, SECTION 313: This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of The Emergency Planning and Community Right –To-Know Act of 1986 (40CFR 372): . Zinc compounds 54 % by weight.

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

Issue Date: March 2015

Version #: 01

Further Information: Not available

Disclaimer: 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 AgroPlantae, Inc. 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 AgroPlantae, in conjunction with the use of this information. Actual conditions of use and handling may require consideration of information other than, or in addition to, that which is provided herein.