



Qingdao Bright Honor Biotechnology Co., Ltd

Address: Huangdao District, Qingdao City, Shandong Province, China (formerly Unit 2, Building1, No. 3, Yinshatan Road, Development Zone, Room 1303)

Email: hanyu@organic-green.cn Tel: +86-15610512127

Technical Data Sheet (TDS)

Liquid Boron Fertilizer

Product Overview

Product Name: Liquid Boron Fertilizer

Model/Grade: Boron content 150g/L

Uses: Used as a micronutrient fertilizer to supply boron essential for plant growth and development.

Application Fields: Agriculture, horticulture, and soil conditioning to improve crop yield and quality.

Physical Properties

Color: Yellow transparent

Odor: Slight characteristic odor

Density: 1.37 - 1.4 g/cm³

Melting Point: Not applicable (liquid product)

Boiling Point: Not applicable (liquid product)

Chemical Properties

Chemical Composition: Boron (B) 150 g/L in liquid form

Molecular Structure: Boron species in aqueous solution, typically as boric acid or borate ions

Molecular Weight: Boron atomic weight approx. 10.81 g/mol (varies depending on chemical form)

Reactivity: Stable under normal conditions; reacts mildly with strong acids and alkalis.

Performance Indicators

This product is designed to provide essential boron for crops.

Stability

Shelf Life: 2 years when stored properly

Storage Conditions: Store in a cool, dry place away from direct sunlight and extreme temperatures.

Influence of Temperature and Light: Avoid freezing and prolonged exposure to strong sunlight to maintain product stability.

Solubility

Completely soluble in water; forms a homogeneous solution suitable for foliar application and soil drenching.

pH Value

pH (250 times dilution): 7 - 8 (neutral to slightly alkaline)



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Viscosity

Low viscosity; flows easily at ambient temperature enabling easy mixing and application.

Safety Information

Toxicity: Low toxicity when used as directed; avoid ingestion and prolonged skin contact.

Corrosiveness: Non-corrosive in diluted form.

Flammability: Non-flammable.

Precautions: Use personal protective equipment such as gloves and goggles during handling. Avoid contact with eyes and skin.

Usage Instructions

Application Method: Dilute according to crop requirements and apply via foliar spray or soil drenching.

Dosage: Follow agronomic recommendations based on crop type and soil boron levels.

Precautions: Do not exceed recommended dosage to avoid phytotoxicity. Store product tightly sealed.

Safety Measures: Wash hands after use; keep out of reach of children and pets.



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Material Safety Data Sheet (MSDS)

1. Product and Company Identification

Product Name: Liquid Boron Fertilizer

Batch Number: 20250701

Production Date: July 1, 2025

Analysis Date: July 1, 2025

Expiry Date: July 1, 2030

Manufacturer: Qingdao Bright Honor Biotechnology Co., Ltd.

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Contact Person: Hanyu

Phone: +86 15610512127

2. Hazard Identification

This product is considered to have low toxicity and is non-flammable. It is not classified as hazardous under normal handling conditions.

- May cause mild irritation to eyes and skin.
- Avoid ingestion and prolonged exposure.

3. Composition / Information on Ingredients

Component	Chemical Name	Concentration	CAS Number
Boron (B)	Elemental Boron (as boric acid/borate)	150 g/L	10043-35-3 (Boric acid)
Boron oxide (B ₂ O ₃)	Boron trioxide	480 g/L	1303-86-2
Other ingredients	Water and additives	Balance	—

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash affected area with soap and water. Remove contaminated clothing. Seek medical advice if irritation occurs.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek immediate medical attention.



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5. Firefighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or carbon dioxide.
- **Unsuitable Extinguishing Media:** None known.
- **Special Hazards:** Non-flammable; no hazardous combustion products expected.
- **Protective Equipment:** Firefighters should wear full protective gear and self-contained breathing apparatus.

6. Accidental Release Measures

- Wear appropriate personal protective equipment.
- Contain spill and prevent entry into waterways or drains.
- Absorb with inert material (e.g., sand, earth) and collect in suitable containers for disposal.
- Clean contaminated area with water after material pickup.

7. Handling and Storage

- Handle with care, avoid contact with skin and eyes.
- Use in well-ventilated areas.
- Store in a cool, dry place away from direct sunlight and freezing temperatures.
- Keep container tightly closed when not in use.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Provide adequate ventilation.
- **Personal Protective Equipment:**
 - Gloves resistant to chemicals.
 - Safety goggles or face shield.
 - Protective clothing to prevent skin contact.
- **Respiratory Protection:** Not normally required; use if ventilation is inadequate.

9. Physical and Chemical Properties

Appearance	Yellow transparent liquid
Odor	Slight characteristic odor
Density	1.37 - 1.4 g/cm ³
pH (250x dilution)	7 - 8
Melting	Not applicable



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Point	
Boiling Point	Not applicable
Viscosity	Low, fluid consistency
Solubility	Completely soluble in water

10. Stability and Reactivity

- Stable under normal storage and handling conditions.
- Avoid extreme temperatures and direct sunlight.
- Incompatible with strong acids and strong bases.

11. Toxicological Information

- Low toxicity when used as intended.
- May cause mild irritation to eyes and skin.
- No known chronic effects from normal use.

12. Ecological Information

- Biodegradable and low environmental impact when used properly.
- Avoid release into waterways in large quantities.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Do not dispose of into drains or natural water bodies.

14. Transport Information

- Not classified as hazardous for transport.
- Transport in sealed containers to avoid leakage.

15. Regulatory Information

- Complies with relevant agricultural and chemical safety regulations.

16. Other Information

For further information, contact Qingdao Bright Honor Biotechnology Co., Ltd. using the contact details provided above.

Prepared on July 1, 2025





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CERTIFICATE OF ANALYSIS

COA No.: BH-B-20250701

STATUS: APPROVED

PRODUCT INFORMATION

Product Name: Liquid Boron Fertilizer

Appearance: Yellow Transparent Liquid

Density: 1.37 - 1.40 g/mL

pH (250x Dilution): 7.0 - 8.0

Batch No.: 20250701

Production Date: July 1, 2025

Analysis Date: July 1, 2025

Expiry Date: July 1, 2030

MANUFACTURER INFORMATION

Qingdao Bright Honor Biotechnology Co., Ltd.

Huangdao District, Qingdao City, Shandong Province, China

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Contact: Hanyu +86 156 1051 2127

SPECIFICATIONS

Parameter	Specification
Boron (B)	150 g/L
Boron Trioxide (B ₂ O ₃)	480 g/L
Chloride (Cl)	None Detected
Sodium (Na)	None Detected
Appearance	Yellow Transparent
Density (20°C)	1.37 - 1.40 g/mL
pH (250x Dilution)	7.0 - 8.0

BRIGHT HONOR



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QUALITY CONTROL STATEMENT

The above batch of Liquid Boron Fertilizer has been manufactured and tested in compliance with our internal quality control procedures. The product meets all specified requirements and is approved for release.

Storage Recommendations: Store in a cool, dry place away from direct sunlight. Keep container tightly closed when not in use.

Prepared By:

Quality Control Analyst

Approved By:

Quality Assurance Manager

