



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)

1. Product Overview

Product Name: Boron-Molybdenum Liquid Fertilizer

Model: N/A

Use: This product is a liquid fertilizer designed to supply essential micronutrients boron and molybdenum to plants, promoting healthy growth and crop yield.

Application Fields: Suitable for agricultural crops, horticulture, and soil or foliar fertilization.

2. Physical Properties

| Property | Value |
|---------------|---------------------------------|
| Color | Golden Yellow |
| Odor | Mild characteristic odor |
| Density | 1.5 g/cm ³ |
| Melting Point | Not applicable (liquid product) |
| Boiling Point | Not applicable (liquid product) |

3. Chemical Properties

This product contains the following primary chemical components:

- Boron (B): 120 g/L
- Molybdenum (Mo): 5 g/L
- Calcium source: Calcium nitrate
- Chloride (Cl): None detected
- Sodium (Na): None detected

Molecular Structure & Molecular Weight: As a liquid fertilizer mixture, no single molecular structure or molecular weight is applicable.

Reactivity: Stable under normal conditions. Avoid contact with strong acids and alkalis.

4. Performance Indicators

- High solubility and bioavailability of micronutrients.
- Free from chloride and sodium ions, reducing risk of phytotoxicity.
- Consistent concentration ensuring reliable nutrient supply.

5. Stability

- Product shelf life: 5 years from manufacture date.



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- Store in a cool, dry, and well-ventilated place.
- Protect from direct sunlight and extreme temperatures.
- Keep container tightly closed when not in use.

6. Solubility

Completely soluble in water, forming a homogeneous solution suitable for foliar or soil application. Good dispersibility without precipitation.

7. pH Value

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

8. Viscosity

Low viscosity, easy to handle and apply using standard agricultural spraying equipment.

9. Safety Information

- Non-toxic under normal use conditions.
- Non-corrosive to skin and eyes but avoid direct contact.
- Non-flammable and non-explosive.
- Use personal protective equipment when handling large volumes.

10. Usage Instructions

- Shake well before use.
- Recommended for foliar spraying or soil drenching according to crop nutrient requirements.
- Do not mix with strongly alkaline or acidic chemicals.
- Store away from food and feed.
- In case of contact with skin or eyes, rinse immediately with plenty of water.
- Keep out of reach of children.





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Material Safety Data Sheet (MSDS)

1. Product and Company Identification

Product Name: Boron-Molybdenum Liquid Fertilizer

Batch Number: 20250701

Manufacture 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

Contact Phone: +86 15610512127

2. Composition / Information on Ingredients

| Chemical Name | Concentration (g/L) | CAS Number |
|--|---------------------|--------------------------|
| Boron (B) | 120 | 7440-42-8 (elemental B) |
| Molybdenum (Mo) | 5 | 7439-98-7 (elemental Mo) |
| Calcium Nitrate (Ca(NO ₃) ₂) | Source of calcium | 10124-37-5 |

3. Hazards Identification

- **Emergency Overview:** Golden yellow liquid, mild odor. Non-flammable and non-explosive.
- **Potential Health Effects:**
 - Inhalation: May cause mild irritation to respiratory tract if aerosolized.
 - Skin Contact: May cause mild irritation. Prolonged exposure should be avoided.
 - Eye Contact: May cause mild irritation. Rinse immediately if contact occurs.
 - Ingestion: Low toxicity; ingestion in large quantities may cause gastrointestinal discomfort.
- **Environmental Hazards:** Avoid release into the environment. May be harmful to aquatic life in large quantities.

4. First Aid Measures

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



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5. Fire-Fighting Measures

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

6. Accidental Release Measures

- Wear appropriate personal protective equipment (PPE).
- Contain spill and prevent from entering drains or watercourses.
- Absorb with inert material (e.g., sand, earth) and collect in suitable containers for disposal.
- Clean affected area thoroughly.

7. Handling and Storage

- Handle with care, avoid skin and eye contact.
- Store in a cool, dry, well-ventilated area away from incompatible substances.
- Keep container tightly closed when not in use.
- Protect from freezing and direct sunlight.

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Use adequate ventilation to keep airborne concentrations low.
- **Personal Protective Equipment (PPE):**
 - Gloves resistant to chemicals.
 - Safety goggles or face shield.
 - Protective clothing.
 - Respiratory protection if aerosol or mist is generated.

9. Physical and Chemical Properties

| | |
|---------------------------|----------------------------------|
| Appearance | Golden yellow liquid |
| Odor | Mild characteristic odor |
| pH (250x dilution) | 7 - 8 |
| Density | 1.5 g/cm ³ |
| Boiling Point | Not applicable (liquid solution) |
| Melting Point | Not applicable (liquid solution) |
| Solubility | Completely soluble in water |



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10. Stability and Reactivity

- Stable under recommended storage conditions.
- Avoid contact with strong acids and alkalis.
- No hazardous decomposition products known.

11. Toxicological Information

- Low toxicity based on available data.
- Not classified as carcinogenic, mutagenic, or toxic to reproduction.
- May cause mild irritation on prolonged or repeated exposure.

12. Ecological Information

- May be harmful to aquatic organisms if released in large quantities.
- Avoid contamination of soil and water bodies.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Do not dispose into drains or environment.
- Use licensed waste disposal contractors.

14. Transport Information

- Not classified as hazardous for transport.
- Follow general precautions for liquid fertilizers during transport.

15. Regulatory Information

- Complies with relevant agricultural and chemical safety regulations.

16. Other Information

Prepared by: Qingdao Bright Honor Biotechnology Co., Ltd.

Date of Preparation: July 1, 2025

Contact: Hanyu, +86 15610512127

This MSDS is provided based on current knowledge and is intended to describe the product for safety purposes. Users should ensure suitability for their specific applications.





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Certificate of Analysis (COA)

1. Product Information

Product Name: Boron-Molybdenum Liquid Fertilizer

Batch Number: 20250701

Manufacture Date: July 1, 2025

Analysis Date: July 1, 2025

Expiry Date: July 1, 2030

2. Manufacturer Information

Manufacturer: Qingdao Bright Honor Biotechnology Co., Ltd.

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Contact Person: Hanyu

Contact Phone: +86 15610512127

3. Analytical Results

| Parameter | Specification | Test Result | Unit |
|--------------------|-----------------|---------------|-------------------|
| Boron (B) | ≥ 120 | 120 | g/L |
| Molybdenum (Mo) | ≥ 5 | 5 | g/L |
| Chloride (Cl) | None Detected | Not Detected | — |
| Sodium (Na) | None Detected | Not Detected | — |
| Calcium Source | Calcium Nitrate | Confirmed | — |
| Color | Golden Yellow | Golden Yellow | — |
| pH (250x dilution) | 7 - 8 | 7.5 | — |
| Density | 1.5 ± 0.05 | 1.5 | g/cm ³ |

4. Remarks

The product conforms to the specified quality standards and is suitable for agricultural use as a liquid fertilizer supplying boron and molybdenum micronutrients.

5. Approval

Approved by Quality Control Department



Handwritten signature/initials.

BRIGHT HONOR



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: henry@organic-green.cn Tel: +86-15610512127

Signature: _____

Date: July 1, 2025



Henry