



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: NPK Liquid Fertilizer

Grade / Model: Total Nitrogen 100 g/L, P₂O₅ 100 g/L, K₂O 600 g/L

Application: This liquid fertilizer is formulated for foliar feeding and fertigation to supply essential macro-nutrients for crops. It enhances crop growth, yield, and quality. Suitable for a wide range of agricultural and horticultural crops.

2. Physical Properties

Appearance	Blue liquid
Odor	Odorless
Density	Approximately 1.6 - 1.8g/cm ³
Melting Point	Not applicable (liquid product)
Boiling Point	Not applicable (liquid product)

3. Chemical Properties

The product contains the following chemical components:

Component	Content	Source / Notes
Total Nitrogen (N)	100 g/L	Including Amide N (4.65% w/v), Nitrate N (2.67% w/v), Ammonium N (2.67% w/v)
Phosphorus (P ₂ O ₅)	100 g/L	Phosphorus pentoxide equivalent
Potassium (K ₂ O)	600 g/L	Potassium oxide equivalent
Calcium Source	Calcium Nitrate	Provides calcium and additional nitrogen
Chloride (Cl)	None detected	Chloride free
Sodium (Na)	None detected	Sodium free

Note: Molecular structures and molecular weights vary depending on individual compounds; the product is a formulated mixture optimized for nutrient delivery and compatibility.

4. Performance Indicators

- High nutrient density for efficient nutrient supply
- Balanced nitrogen forms for immediate and sustained nutrient availability
- Free from chloride and sodium to minimize crop toxicity risks



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- Compatible with most irrigation and foliar application equipment

5. Stability

The product remains stable under recommended storage conditions. Store in a cool, dry, and well-ventilated place, protected from direct sunlight and freezing. Shelf life is typically 5 years when stored properly.

6. Solubility

Fully soluble in water, producing a clear blue solution. It disperses uniformly with no sedimentation.

7. pH Value

The pH of the product diluted 250 times with water ranges between 6 and 7, indicating a near-neutral pH suitable for most crops.

8. Viscosity

The product has low viscosity, ensuring smooth flow and ease of handling during mixing and application.

9. Safety Information

- Non-toxic and non-corrosive under normal handling conditions.
- Not flammable or explosive.
- May cause mild irritation to skin or eyes upon direct contact; use appropriate personal protective equipment.

10. Usage Instructions

Recommended dilution ratio: 1:800 to 1:1000 with water prior to application.

- Apply via foliar spraying or fertigation systems.
- Ensure thorough agitation to achieve uniform mixing.
- Avoid application under extreme heat or strong sunlight to reduce risk of leaf burn.
- Wear protective gloves and eye protection during handling.
- Store diluted solutions properly and use promptly.



Handwritten signature or initials.



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Material Safety Data Sheet (MSDS)

Product Identification

Product Name: NPK Liquid Fertilizer

Grade / Model: Total Nitrogen 100 g/L, P₂O₅ 100 g/L, K₂O 600 g/L

Color: Colorless

pH (250x dilution): 6 - 7

Calcium Source: Calcium Nitrate

Nitrogen Forms: Amide N 4.65% w/v, Nitrate N 2.67% w/v, Ammonium N 2.67% w/v

Manufacturer Information

Company: Qingdao Bright Honor Biotechnology Co., Ltd.

Address: Huangdao District, Qingdao City, Shandong Province, China (formerly Unit 2, Building 1, No. 3, Yinshatan Road, Development Zone, Room 1303)

Contact Person: Hanyu

Phone: +86 15610512127

Batch and Dates

Batch Number: 20250701

Manufacture Date: July 1, 2025

Analysis Date: July 1, 2025

Expiry Date: July 1, 2030

1. Hazard Identification

- Non-toxic under normal handling and use conditions.
- Non-flammable and non-explosive.
- May cause mild irritation to skin and eyes upon direct contact.
- Not classified as hazardous according to GHS criteria.

2. Composition / Information on Ingredients

Component	Concentration	CAS Number	Notes
Total Nitrogen (N)	100 g/L	Mixture	Includes Amide N (4.65% w/v), Nitrate N (2.67% w/v), Ammonium N (2.67% w/v)
Phosphorus (P ₂ O ₅)	100 g/L	Mixture	Phosphorus pentoxide equivalent
Potassium (K ₂ O)	600 g/L	Mixture	Potassium oxide equivalent



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Component	Concentration	CAS Number	Notes
Calcium Nitrate	Present	10124-37-5	Calcium source
Chloride (Cl)	None detected	---	Chloride free
Sodium (Na)	None detected	---	Sodium free

3. First Aid Measures

- **Inhalation:** Move to fresh air. If symptoms persist, seek medical attention.
- **Skin Contact:** Wash affected area with plenty of water. Remove contaminated clothing. If irritation develops, seek medical advice.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if discomfort occurs.

4. Fire Fighting Measures

- Not flammable or combustible.
- Use extinguishing media suitable for surrounding fire.
- Wear self-contained breathing apparatus and protective clothing if necessary.

5. Accidental Release Measures

- Contain spill and prevent from entering waterways.
- Use absorbent materials (sand, earth) to soak up liquid.
- Dispose of according to local regulations.
- Wear protective gloves and eye protection during cleanup.

6. Handling and Storage

- Handle with care to avoid skin and eye contact.
- Use personal protective equipment as needed.
- Store in a cool, dry, well-ventilated area away from direct sunlight and freezing temperatures.
- Keep container tightly closed when not in use.

7. Exposure Controls / Personal Protection

- **Engineering Controls:** Use adequate ventilation.
- **Personal Protective Equipment:** Gloves, safety goggles, protective clothing.



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- **Respiratory Protection:** Not normally required; use if ventilation is inadequate.

8. Physical and Chemical Properties

Appearance	Colorless
Odor	Odorless
pH (250x dilution)	6 - 7
Density	Approx. 1.30 - 1.35 g/cm ³
Melting Point	Not applicable
Boiling Point	Not applicable
Viscosity	Low viscosity, easy flow
Solubility	Fully soluble in water

9. Stability and Reactivity

- Stable under normal storage and handling conditions.
- Avoid exposure to extreme temperatures and direct sunlight.
- Incompatible with strong acids and alkalis.
- No hazardous decomposition products known.

10. Toxicological Information

- Non-toxic under normal use.
- May cause mild skin and eye irritation.
- No chronic effects identified.

11. Ecological Information

- Readily biodegradable.
- Do not allow large quantities to enter waterways to avoid nutrient pollution.

12. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Do not dispose of into drains or the environment.

13. Transport Information

- Not classified as hazardous for transport.



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- Transport in sealed containers to avoid leakage.

14. Regulatory Information

- Complies with applicable chemical safety regulations.
- Not classified as hazardous under GHS.

15. Other Information

Information provided is based on current knowledge and experience. It does not constitute a warranty or guarantee. Users should verify suitability for their own applications.



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Certificate of Analysis (COA)

Product Information

Product Name: NPK Liquid Fertilizer

Grade / Model: Total Nitrogen 100 g/L, P₂O₅ 100 g/L, K₂O 600 g/L

Color: Blue

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Nitrogen Forms: Amide N 4.65% w/v, Nitrate N 2.67% w/v, Ammonium N 2.67% w/v

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Analytical Results

Parameter	Specification	Test Result	Unit
Total Nitrogen (N)	≥ 100	100	g/L
Amide Nitrogen (N)	~46.5	46.5	g/L
Nitrate Nitrogen (N)	~26.7	26.7	g/L
Ammonium Nitrogen (N)	~26.7	26.7	g/L
Phosphorus Pentoxide (P ₂ O ₅)	≥ 100	100	g/L
Potassium Oxide (K ₂ O)	≥ 600	600	g/L
Chloride (Cl)	None detected	None detected	---
Sodium (Na)	None detected	None detected	---
pH (250x dilution)	6 - 7	6.5	---

Remarks

The product complies with the specified quality parameters and is suitable for agricultural use as a liquid fertilizer.

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Authorized Signature



Date: July 1, 2025