



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

NANO SUSPENSION CALCIUM FERTILIZER

1. PRODUCT OVERVIEW

Product Name: Nano Suspension Calcium Fertilizer

Type: Liquid suspension fertilizer

Applications: Agricultural crops, horticulture, hydroponics, and foliar application

Main Function: Provides highly available calcium to prevent and correct calcium deficiencies in plants

2. PHYSICAL PROPERTIES

Parameter	Specification
Appearance	Milky white suspension
Odor	Odorless
Density (20°C)	1.73 g/cm ³
Viscosity	Low viscosity, good fluidity

3. CHEMICAL PROPERTIES

Component	Content
Calcium oxide (CaO)	600 g/L
Calcium source	Calcium oxide (CaO)
pH value (1:250 dilution)	7-8

4. PERFORMANCE CHARACTERISTICS

- Nano-sized calcium particles for enhanced absorption
- Excellent suspension stability
- Rapid plant availability
- Compatible with most pesticides and fertilizers

5. STABILITY & STORAGE

- **Shelf life:** 24 months from production date
- **Storage conditions:** Store in original container at 5-35°C
- **Protect from:** Freezing and direct sunlight
- **Separation:** May settle during storage - shake well before use

6. SOLUBILITY & DISPERSION

- Easily dispersible in water
- Recommended dilution ratio: 1:800-1000 with water
- Forms stable suspension when properly diluted



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7. SAFETY INFORMATION

Hazard	Classification
Eye irritation	May cause mild irritation
Skin irritation	Non-irritating to skin
Ingestion	Harmful if swallowed
Flammability	Non-flammable

8. APPLICATION METHOD

- **Foliar application:** Dilute 1:800-1000 with water, spray evenly on leaves
- **Soil application:** Dilute as above and apply to root zone
- **Frequency:** Apply every 2-4 weeks during growth period
- **Best application time:** Early morning or late afternoon

9. PRECAUTIONS

- Wear protective gloves and goggles when handling
- Do not mix with acidic products unless tested for compatibility
- Rinse equipment thoroughly after use
- Keep out of reach of children and animals
- In case of eye contact, rinse immediately with plenty of water



Handwritten signature/initials.



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MATERIAL SAFETY DATA SHEET

NANO SUSPENSION CALCIUM FERTILIZER

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	Nano Suspension Calcium Fertilizer
Manufacturer:	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)
Contact:	Hanyu +86 156 1051 2127
Batch No.:	20250701
Manufacture Date:	July 1, 2025
Analysis Date:	July 1, 2025
Expiry Date:	July 1, 2030
Emergency Tel:	+86 156 1051 2127

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Content	Hazard Classification
Calcium oxide (CaO)	1305-78-8	600 g/L	Skin corrosion/irritation Category 2 Serious eye damage/irritation Category 1

3. HAZARDS IDENTIFICATION

Emergency Overview: Milky white suspension liquid. May cause skin and eye irritation. Harmful if swallowed.

Potential Health Effects:

- **Eye:** Causes serious eye irritation
- **Skin:** May cause skin irritation
- **Ingestion:** Harmful if swallowed. May cause burns to mouth, throat and stomach
- **Inhalation:** May cause respiratory irritation

4. FIRST AID MEASURES

- **Eye contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical attention.
- **Skin contact:** Wash with soap and water. Remove contaminated clothing.
- **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical attention immediately.



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- **Inhalation:** Move to fresh air. If breathing is difficult, give oxygen.

5. FIRE-FIGHTING MEASURES

- **Extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide
- **Special hazards:** None known
- **Protective equipment:** Wear self-contained breathing apparatus for firefighting

6. ACCIDENTAL RELEASE MEASURES

- Wear protective equipment
- Contain spill with inert material (sand, earth)
- Collect spilled material in appropriate containers
- Wash area with plenty of water

7. HANDLING AND STORAGE

Handling:

- Use in well-ventilated area
- Wear protective gloves, eye/face protection
- Do not eat, drink or smoke when using

Storage:

- Store in original container in cool, dry place
- Keep container tightly closed
- Temperature range: 5-35°C
- Protect from freezing and direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Parameter	Requirements
Ventilation	Local exhaust ventilation recommended
Respiratory	Not normally required with adequate ventilation
Hand protection	Chemical-resistant gloves (nitrile rubber recommended)
Eye protection	Safety goggles or face shield
Skin protection	Wear protective clothing

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Milky white suspension
Odor:	Odorless
pH:	7-8 (1:100 dilution)
Density:	1.73 g/cm ³ at 20°C
Solubility:	Dispersible in water (1:800-1000 dilution)

10. STABILITY AND REACTIVITY

- **Chemical stability:** Stable under recommended conditions



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- **Conditions to avoid:** Strong acids, freezing
- **Hazardous decomposition:** None known

11. TOXICOLOGICAL INFORMATION

- **Acute toxicity:** LD50 (oral, rat) > 2000 mg/kg
- **Skin corrosion/irritation:** May cause irritation
- **Eye damage/irritation:** Causes serious eye irritation

12. ECOLOGICAL INFORMATION

- **Ecotoxicity:** Not expected to be ecotoxic at recommended use rates
- **Persistence:** Calcium oxide reacts with water to form calcium hydroxide

13. DISPOSAL CONSIDERATIONS

- Dispose in accordance with local regulations
- Do not discharge into waterways

14. TRANSPORT INFORMATION

UN Number:	Not regulated
Shipping Name:	Not dangerous goods
Transport Hazard Class:	Not classified as dangerous

15. REGULATORY INFORMATION

- This product is classified as fertilizer
- Complies with Chinese fertilizer regulations

16. OTHER INFORMATION

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

Revision Date: July 1, 2025

Disclaimer: The information herein is provided in good faith but without warranty. Users should make their own determination of suitability.





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CERTIFICATE OF ANALYSIS

NANO SUSPENSION CALCIUM FERTILIZER

Product Name:	Nano Suspension Calcium Fertilizer	Batch No.:	20250701
Calcium Source:	Calcium Oxide (CaO)	Manufacture Date:	July 1, 2025
Appearance:	Milky white suspension	Analysis Date:	July 1, 2025
Package:	HDPE containers	Expiry Date:	July 1, 2030

1. SPECIFICATION ANALYSIS

Parameter	Specification	Test Result
Calcium oxide (CaO) content	600 g/L ± 5%	602 g/L
pH value (1:100 dilution)	7-8	7.5
Density at 20°C	1.73 g/cm³ ± 0.05	1.72 g/cm³
Sodium (Na) content	None detected	< 0.01%
Chloride (Cl) content	None detected	< 0.01%

2. IMPURITY ANALYSIS

Contaminant	Result	Limit	Method
Lead (Pb)	< 2 mg/kg	< 10 mg/kg	ICP-MS
Cadmium (Cd)	< 0.5 mg/kg	< 2 mg/kg	ICP-MS
Arsenic (As)	< 1 mg/kg	< 5 mg/kg	ICP-MS
Mercury (Hg)	< 0.1 mg/kg	< 0.5 mg/kg	Cold vapor AAS

3. PERFORMANCE CHARACTERISTICS

- **Dilution ratio:** 1:800-1000 with water
- **Suspension stability:** No precipitation after 30 min standing
- **Storage conditions:** 5-35°C, protect from freezing and direct sunlight
- **Shelf life:** 5 years in original sealed container

4. CONCLUSION

The above test results confirm that Batch No. 20250701 of Nano Suspension Calcium Fertilizer meets all quality specifications and is approved for release.



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Quality Control:		Date:	July 1, 2025
Quality Manager:		Date:	July 1, 2025

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This certificate relates only to the batch specified above.