



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Safety Data Sheet (MSDS)

(According to GB/T 16483, GB/T 17519, and GHS Standards)

SECTION 1: Identification

1.1 Product Identifiers

- Product Name: Boric Acid
- Product Number: BOR-20260212
- Brand: TECHPURE
- CAS-No.: 10043-35-3
- Synonyms: Orthoboric Acid; Boracic Acid

1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
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- Telephone : +86-021-50350029
- Fax : +86-021-50350029

1.3 Emergency telephone

Emergency Phone # : +86-021-50350029
(CHEMTREC)

1.4 Uses & Restrictions

- Identified Uses: Glass production, ceramic glaze, pharmaceutical antiseptic, laboratory reagent.
- Uses Advised Against: Excessive ingestion, unventilated enclosed space use.

SECTION 2: Hazards Identification

2.1 GHS Classification

- Skin irritation (Category 2)
- Eye irritation (Category 2)
- Aquatic toxicity (Category 1)
- Specific target organ toxicity (Repeated exposure) (Category 2)

2.2 GHS Label Elements

- Hazard Pictogram: Irritant; Environment
- Signal Word: Warning
- Hazard Statements: H315 (Causes skin irritation); H319 (Causes serious eye irritation); H400 (Very toxic to aquatic life); H373 (May cause damage to organs through prolonged exposure)
- Precautionary Statements: P260 (Do not breathe dust); P280 (Wear protective gloves/eye protection); P304+P340 (If inhaled: Remove to fresh air)

SECTION 3: Composition/Information on Ingredients

- Substance / Mixture: Pure substance
- Active Component: Boric Acid (CAS 10043-35-3)
- Concentration: $\geq 99.5\%$



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- Impurities: $\leq 0.5\%$ (Water, trace metals)

SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; seek medical attention if discomfort persists.
- Skin Contact: Rinse skin with running water for 10 minutes; remove contaminated clothing.
- Eye Contact: Rinse eyes with plenty of running water for 15 minutes; consult a doctor if irritation remains.
- Swallowed: Rinse mouth with water; seek medical attention if large amounts are ingested.

SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Dry powder, CO₂, foam, water spray.
- Special Hazards: Non-flammable; no hazardous combustion gases.
- Advice for Firefighters: Wear standard fire-fighting gear.

SECTION 6: Accidental Release Measures

- Personal Precautions: Wear dust mask and gloves; evacuate non-essential personnel for large spills.
- Environmental Precautions: Prevent entry into watercourses.
- Clean-Up Methods: Small spills: Sweep with inert materials; large spills: Transfer to sealed containers.

SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated areas; avoid dust generation.
- Storage: Cool, dry, well-ventilated warehouse ($\leq 30^{\circ}\text{C}$); sealed, away from heat/moisture.
- Incompatibilities: Strong bases, oxidizing agents.

SECTION 8: Exposure Controls/Personal Protection

- PPE: Dust mask, safety glasses, nitrile rubber gloves.
- Exposure Limits: TWA (8h): 10 mg/m³ (OSHA); STEL (15min): 20 mg/m³ (OSHA).

SECTION 9: Physical and Chemical Properties

- Physical State: Solid; Color: White; Odor: Odorless
- Melting Point: 170°C; Boiling Point: 300°C (decomposes); Density (20°C): 1.43 g/cm³
- Solubility: 5.7 g/100 mL water (25°C); Vapor Pressure (25°C): < 0.001 kPa

SECTION 10: Stability and Reactivity

- Stability: Stable under normal conditions; decomposes at high temperature to release boron oxide.
- Hazardous Reactions: Reacts violently with strong bases.

SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD₅₀): 2660 mg/kg; Inhalation (Rat, LC₅₀): > 5000 mg/m³ (4h)
- Skin/Eye Irritation: Mild skin irritation; reversible eye irritation.
- Chronic Toxicity: Prolonged exposure may cause kidney damage.

SECTION 12: Ecological Information

- Aquatic Toxicity: Fish (Zebrafish, LC₅₀): 100 mg/L (96h); Daphnia (EC₅₀): 150 mg/L (48h)



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- Biodegradability: Moderately biodegradable.

SECTION 13: Disposal Considerations

- Product Waste: Dispose as non-hazardous waste; dilute with water for biological treatment.
- Packaging Waste: Rinse with water; dispose as non-hazardous waste or recycle.

SECTION 14: Transport Information

- UN Number: None (Non-hazardous)
- UN Proper Shipping Name: Not dangerous goods
- Transport Hazard Class: None; Packaging Group: None
- Transport Precautions: Avoid collision, moisture, and direct sunlight.

SECTION 15: Regulatory Information

- National Regulations: Hazardous Chemical Safety Management Regulation (Non-hazardous); Environmental Protection Law.
- International Regulations: GHS (Rev. 9); REACH (EU, listed); TSCA (US, listed).

SECTION 16: Other Information

- Revision Date:12 FEB 2026
- Disclaimer: This MSDS is based on current data; supplier not liable for improper use.

纳维盈医化科技
NEWAY SINOPHC TECH