

Material Safety Data Sheet (MSDS)

Product Name: Boric Acid Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Boric Acid
- **Grade:** Food Grade
- **Chemical Name:** Orthoboric Acid
- **CAS No.:** 10043-35-3
- **Molecular Formula:** H_3BO_3
- **Recommended Use:** Food additive, preservative, laboratory reagent, pharmaceutical and industrial applications

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous under normal conditions of use
- **Potential Hazards:**
 - May cause mild irritation to eyes, skin, and respiratory tract

- Harmful if ingested in excessive quantities
- **Target Organs:** Eyes, skin, respiratory system
- **Signal Word:** None

3. Composition / Information on Ingredients

- **Substance:** Boric Acid
- **Purity:** ≥ 99% (Food Grade)
- **CAS No.:** 10043-35-3

4. First Aid Measures

- **Inhalation:** Move affected person to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse cautiously with water for at least 15 minutes. Seek medical advice if irritation continues.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical attention if large quantities are swallowed.

5. Fire Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, or CO₂
- **Hazardous Combustion Products:** Boron oxides
- **Protective Equipment:** Firefighters should wear self-contained breathing apparatus

6. Accidental Release Measures

- Avoid dust formation
- Use appropriate personal protective equipment
- Sweep or vacuum and place in suitable containers for disposal
- Prevent material from entering drains or waterways

7. Handling and Storage

- Handle in accordance with good industrial hygiene practices
- Avoid inhalation of dust
- Store in a cool, dry, well-ventilated area
- Keep container tightly closed and protected from moisture

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment:**
 - Gloves
 - Safety goggles
 - Dust mask or respirator if required
- **Hygiene Measures:** Wash hands after handling

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **Solubility:** Slightly soluble in water
- **pH (1% solution):** ~3.5 – 4.5
- **Melting Point:** ~170°C (decomposes)
- **Boiling Point:** Not applicable

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong bases, strong oxidizing agents
- **Hazardous Decomposition Products:** Boron oxides

- **Conditions to Avoid:** Excessive heat and moisture
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11. Toxicological Information

- **Acute Toxicity:** Low toxicity at normal exposure levels
 - **Irritation:** May cause mild irritation to eyes, skin, and respiratory tract
 - **Chronic Effects:** Prolonged exposure to high doses may affect reproductive system
 - **Carcinogenicity:** Not classified as carcinogenic
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12. Ecological Information

- Low environmental toxicity
 - May affect aquatic life at high concentrations
 - Not readily biodegradable
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations
 - Avoid release into the environment
 - Dispose through approved waste management facilities
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14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not applicable
- **Transport Hazard Class:** Not classified as hazardous for transport
- **Packing Group:** Not applicable

Transport Regulations:

- **ADR/RID (Road/Rail):** Not regulated
- **IMDG (Sea Transport):** Not regulated
- **IATA (Air Transport):** Not regulated

Special Transport Precautions:

- Ensure containers are securely sealed and protected from moisture
- Avoid damage to packaging during handling and transit
- Transport in clean, dry vehicles away from food contamination risks

Bulk Transport:

- Product is not classified as dangerous goods for bulk transport
- Follow good logistics and hygiene practices during transport

15. Regulatory Information

- Complies with applicable food-grade and chemical safety regulations
- Conforms to international safety and handling standards
- Subject to local food and chemical control laws

16. Other Information

- This MSDS is prepared based on current knowledge and standard safety guidelines
- Information is intended as guidance for safe handling, storage, and transport
- Users should evaluate suitability for their specific application

Disclaimer:

The information contained herein is accurate to the best of our knowledge but does not constitute a guarantee of product properties. Compliance with applicable laws and regulations remains the responsibility of the user.

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