

Material Safety Data Sheet (MSDS)

Product Name: Boric Acid Technical Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Boric Acid
- **Grade:** Technical Grade
- **Chemical Name:** Orthoboric Acid
- **CAS No.:** 10043-35-3
- **Molecular Formula:** H_3BO_3
- **Recommended Use:** Industrial applications, glass manufacturing, ceramics, detergents, wood preservatives, agriculture, and chemical processing

2. Hazard Identification

- **Classification:** Not classified as hazardous under GHS at normal handling levels
- **Health Hazards:**
 - May cause irritation to eyes, skin, and respiratory tract
 - Harmful if swallowed in large quantities
- **Signal Word:** Warning
- **Potential Effects:**

- Eye irritation
- Skin dryness on prolonged contact
- Gastrointestinal discomfort if ingested

3. Composition / Information on Ingredients

Boric Acid – Technical Grade consists mainly of **Orthoboric Acid (H_3BO_3)** with a purity level of **not less than 99.0%**.

- **CAS Number:** 10043-35-3
- **Chemical Nature:** Inorganic boron compound
- **Impurities:** May contain trace amounts of inorganic salts depending on manufacturing process

4. First Aid Measures

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

5. Fire Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, dry chemical, CO_2
- **Hazards from Combustion:** No hazardous combustion products
- **Protective Equipment:** Standard firefighting protective equipment

6. Accidental Release Measures

- Avoid dust formation
- Use protective gloves, goggles, and dust mask
- Sweep up material and collect in suitable containers
- Prevent material from entering drains and water bodies

7. Handling and Storage

- **Handling:** Avoid inhalation of dust and direct contact with eyes
- **Storage:**
 - Store in a cool, dry, and well-ventilated area
 - Keep container tightly closed
 - Protect from moisture and contamination

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate local exhaust ventilation
- **Personal Protective Equipment (PPE):**
 - Protective gloves (PVC / rubber)
 - Safety goggles or face shield
 - Dust mask or respirator where dust is generated

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odour:** Odourless
- **Solubility:** Slightly soluble in cold water, soluble in hot water
- **pH (5% solution):** 3.5 – 4.5
- **Melting Point:** Approximately 170°C (decomposes)

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Excessive heat, moisture
- **Incompatible Materials:** Strong alkalis, strong bases
- **Hazardous Decomposition Products:** Boron oxides

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **LD50 (Oral, Rat):** Approximately 2660 mg/kg

- **Chronic Effects:** Prolonged or excessive exposure may affect reproductive organs
- **Carcinogenicity:** Not classified as carcinogenic

12. Ecological Information

- Not expected to be harmful to aquatic life at low concentrations
- Avoid uncontrolled release into the environment
- Bioaccumulation potential is low

13. Disposal Considerations

- Dispose of in accordance with local and national regulations
- Do not dispose into drains, surface water, or soil
- Use authorized waste disposal contractors

14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Not classified as dangerous goods
- **Transport Hazard Class:** Not applicable
- **Packing Group:** Not applicable

Transport Mode Details:

- **Road (ADR/RID):** Not regulated as hazardous material
- **Sea (IMDG Code):** Not classified as dangerous goods
- **Air (IATA):** Not regulated

Special Precautions:

- Transport in tightly sealed bags or containers
- Protect from moisture during transportation
- Avoid rough handling to prevent dust generation

Environmental Hazard: None

15. Regulatory Information

- Not listed as a controlled substance under major Indian or international regulations
- Complies with applicable chemical safety standards

16. Other Information

- Information provided is based on current knowledge and regulations
- This MSDS is intended as a guide for safe handling, storage, and disposal
- Users are responsible for compliance with applicable laws
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.