

Material Safety Data Sheet (MSDS)

Product Name: Sodium Benzoate IP 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:** Sodium Benzoate IP Grade
- **Chemical Formula:** C_6H_5COONa
- **CAS No.:** 532-32-1
- **Molecular Weight:** 144.11 g/mol
- **Recommended Use:** Food preservative, pharmaceutical excipient, laboratory reagent.

2. Hazard Identification

- **Classification:** Not classified as hazardous under normal conditions of use.
- **Potential Health Effects:**
 - **Inhalation:** May cause irritation to respiratory tract.
 - **Skin Contact:** Prolonged contact may cause mild irritation.
 - **Eye Contact:** Dust may cause mechanical irritation.

- **Ingestion:** Generally recognized as safe in prescribed limits. Large doses may cause gastric irritation.
- **Environment:** Low environmental hazard in recommended use.

3. Composition / Information on Ingredients

- **Substance:** Sodium Benzoate
- **Purity:** $\geq 99\%$ (IP Grade)
- **Impurities:** None significant affecting classification.

4. First Aid Measures

- **Inhalation:** Move to fresh air. If breathing difficulty persists, seek medical advice.
- **Skin Contact:** Wash with soap and water. Remove contaminated clothing.
- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Get medical help if irritation persists.
- **Ingestion:** Rinse mouth, give water to drink. Seek medical attention if large amount swallowed.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam.
- **Special Hazards:** Emits toxic fumes of carbon oxides under fire conditions.
- **Protective Equipment:** Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid dust formation.
- Sweep up and place into properly labeled containers.
- Ventilate area and wash spill site with water after clean-up.
- Dispose of according to local regulations.

7. Handling and Storage

- **Handling:** Avoid contact with eyes, skin, and clothing. Minimize dust generation. Use in well-ventilated area.
- **Storage:** Store in a cool, dry, and well-ventilated place. Keep container tightly closed. Protect from moisture and direct sunlight.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
- **Engineering Controls:** Ensure adequate ventilation.
- **Personal Protection:**
 - Respiratory: Dust mask recommended.
 - Skin: Gloves and protective clothing.
 - Eye: Safety goggles.
 - Hygiene: Wash hands thoroughly after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline or granular powder.
- **Odor:** Odorless
- **pH (1% solution):** 7 – 8.5
- **Melting Point:** Decomposes at 300°C
- **Solubility:** Freely soluble in water, slightly soluble in alcohol.
- **Boiling Point:** Not applicable (decomposes)
- **Density:** ~1.44 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under recommended storage conditions.
- **Conditions to Avoid:** Heat, moisture, and incompatible materials.
- **Incompatible Materials:** Strong acids, oxidizing agents.
- **Hazardous Decomposition Products:** Carbon oxides, sodium oxides.

11. Toxicological Information

- **Acute Toxicity:** LD₅₀ (oral, rat): ~2000 mg/kg
- **Irritation:** Mild skin and eye irritant.
- **Chronic Effects:** Not known to cause serious long-term effects at prescribed use levels.
- **Carcinogenicity:** Not classified as carcinogenic.
- **Mutagenicity/Teratogenicity:** No data indicating hazards.

12. Ecological Information

- **Ecotoxicity:** Low toxicity to aquatic life.
- **Persistence & Degradability:** Readily biodegradable.
- **Bioaccumulative Potential:** Low.
- **Mobility in Soil:** High solubility in water, low absorption.

13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
- Avoid release into environment.
- Can be dissolved in water and flushed in accordance with local authority guidelines.

14. Transport Information

- **UN Number:** Not regulated.
- **UN Proper Shipping Name:** Sodium Benzoate (Not classified as dangerous goods).
- **Transport Hazard Class:** Not classified.
- **Packing Group:** Not applicable.
- **Labels Required:** None required under international transport regulations.
- **IMDG (Sea Transport):** Not classified as hazardous.
- **IATA (Air Transport):** Not classified as hazardous.

- **ADR/RID (Road/Rail):** Not classified as hazardous.
- **Environmental Hazards:** Not environmentally hazardous under transport regulations.
- **Special Precautions for User:** Avoid dust formation during loading/unloading. Ensure packaging is intact and sealed.
- **Transport in Bulk:** Not applicable as the substance is usually transported in packaged form.

15. Regulatory Information

- **Regulation (EC) No 1907/2006 (REACH):** Exempt as food additive.
- **FDA/FAO/WHO:** Approved as food preservative within limits.
- **Indian Standards:** IP Grade compliant.
- Not classified as hazardous under GHS.

16. Other Information

- **Disclaimer:** The information provided in this MSDS is believed to be accurate and reliable as of the revision date. However, it is provided without warranty, and the user should conduct their own risk assessment before use.
- **End Use:** For food, pharmaceutical, and laboratory applications as per regulations.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.