

Material Safety Data Sheet (MSDS)

Product Name: Sodium Bicarbonate Injectable BP 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:** Sodium Bicarbonate Injectable BP Grade
- **Chemical Name:** Sodium Hydrogen Carbonate
- **CAS No.:** 144-55-8
- **Molecular Formula:** NaHCO_3
- **Recommended Use:** Pharmaceutical injectable formulation, buffer, electrolyte correction

2. Hazard Identification

- Classified as **non-hazardous** under GHS guidelines
- May cause mild eye or skin irritation upon prolonged contact
- Excessive inhalation of dust may cause respiratory discomfort

Hazard Symbols: Not required

Signal Word: None

3. Composition / Information on Ingredients

- **Sodium Bicarbonate** – $\geq 99.0\%$ (BP Grade)
- No hazardous impurities present within BP limits

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes
- **Skin Contact:** Wash with soap and water
- **Inhalation:** Move to fresh air; seek medical attention if irritation persists
- **Ingestion:** Rinse mouth with water; do not induce vomiting

5. Fire-Fighting Measures

- **Flammability:** Non-flammable
- **Suitable Extinguishing Media:** Water spray, dry chemical, CO₂, foam
- **Special Hazards:** None
- **Protective Equipment:** Standard fire-fighting gear

6. Accidental Release Measures

- Avoid dust formation
- Sweep up and collect in suitable containers
- Wash contaminated area with water
- Dispose according to local regulations

7. Handling and Storage

- Handle in accordance with good pharmaceutical practices
- Avoid inhalation of dust
- Store in a cool, dry place in tightly closed containers

- Protect from moisture

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment (PPE):**
 - Gloves: Recommended
 - Eye Protection: Safety goggles
 - Respiratory Protection: Dust mask if required

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** 8.3 (1% solution)
- **Solubility:** Soluble in water
- **Melting Point:** Decomposes above 50°C
- **Density:** ~2.16 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Incompatible Materials:** Strong acids
- **Hazardous Decomposition Products:** Carbon dioxide, sodium oxide
- **Conditions to Avoid:** Excess heat and moisture

11. Toxicological Information

- **Acute Toxicity:** Low
- **Skin Irritation:** Mild
- **Eye Irritation:** Mild

- **Chronic Effects:** No known long-term adverse effects when handled properly
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12. Ecological Information

- Not expected to be harmful to aquatic life
 - Biodegradable and environmentally safe
 - No bioaccumulation expected
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13. Disposal Considerations

- Dispose of product in accordance with local, state, and national regulations
 - Packaging may be recycled or disposed as per regulatory guidelines
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14. Transport Information (Detailed)

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

Mode of Transport:

- **Road (ADR):** Non-hazardous, no special labeling required
- **Rail:** Permitted without restriction
- **Sea (IMDG):** Not regulated as dangerous goods
- **Air (IATA):** Not restricted

Special Transport Precautions:

- Ensure containers are tightly sealed
 - Protect from moisture during transport
 - Avoid damage to packaging
 - Transport in clean, dry conditions
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15. Regulatory Information

- Complies with **British Pharmacopoeia (BP)** standards
- Not classified as hazardous under GHS, OSHA, or REACH
- Suitable for pharmaceutical injectable use

16. Other Information

The information provided in this MSDS is believed to be accurate and reliable as of the revision date. It is intended as guidance for safe handling, storage, and transportation. The user is responsible for compliance with all applicable laws and 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.