

Material Safety Data Sheet (MSDS)

Product Name: Sodium Bicarbonate Injectable IP 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 IP Grade
- **Synonyms:** Sodium Hydrogen Carbonate, Baking Soda (Pharmaceutical Grade)
- **Grade:** Injectable / IP
- **Recommended Use:** Pharmaceutical formulations, injectable solutions, buffer agent

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous
- **Label Elements:** None required
- **Potential Health Effects:**
 - Eyes: Mild irritation on contact
 - Skin: Generally non-irritating
 - Inhalation: Dust may cause mild respiratory irritation
 - Ingestion: Large quantities may cause gastrointestinal discomfort

3. Composition / Information on Ingredients

- **Chemical Name:** Sodium Bicarbonate
- **CAS Number:** 144-55-8
- **Molecular Formula:** NaHCO_3
- **Molecular Weight:** 84.01 g/mol
- **Purity:** As per IP specifications

4. First Aid Measures

- **Eye Contact:** Rinse immediately with plenty of water for at least 15 minutes. Seek medical advice if irritation persists.
- **Skin Contact:** Wash with soap and water.
- **Inhalation:** Move to fresh air. Seek medical attention if symptoms continue.
- **Ingestion:** Rinse mouth with water. Do not induce vomiting. Seek medical advice if large quantity ingested.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, CO_2 , foam
- **Specific Hazards:** Product is non-flammable
- **Protective Equipment:** Firefighters should wear standard protective gear

6. Accidental Release Measures

- Avoid dust formation
- Sweep up and collect in suitable container
- Wash spill area with water
- Use appropriate personal protective equipment

7. Handling and Storage

- **Handling:** Handle in accordance with good pharmaceutical manufacturing practices
- **Storage:**
 - Store in a cool, dry place

- Keep container tightly closed
- Protect from moisture and contamination

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment (PPE):**
 - Eye Protection: Safety goggles
 - Hand Protection: Protective gloves
 - Respiratory Protection: Dust mask if needed
- **Hygiene Measures:** Wash hands after handling

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
- **Bulk Density:** Approx. 0.9–1.1 g/cm³

10. Stability and Reactivity

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

11. Toxicological Information

- **Acute Toxicity:** Low toxicity
- **Chronic Effects:** No known chronic health effects under normal use
- **Carcinogenicity:** Not listed as carcinogenic
- **Sensitization:** Not expected to cause sensitization

12. Ecological Information

- **Ecotoxicity:** Not expected to be harmful to aquatic life
- **Persistence and Degradability:** Readily biodegradable
- **Bioaccumulative Potential:** Low
- **Environmental Impact:** Minimal when used as intended

13. Disposal Considerations

- Dispose in accordance with local, regional, and national regulations
- Small quantities may be disposed of with non-hazardous waste
- Do not discharge large quantities into drains

14. Transport Information (Detailed)

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

Transportation by Road (ADR/RID):

- Not considered hazardous under ADR/RID regulations
- No special labeling or placarding required

Transportation by Sea (IMDG Code):

- Not classified as dangerous goods
- No marine pollutant designation
- Suitable for transport in standard packaging

Transportation by Air (IATA):

- Not restricted for air transport
- No special handling instructions required

Special Transport Precautions:

- Keep containers tightly sealed
- Protect from moisture during transportation
- Ensure proper labeling to prevent contamination or misuse

15. Regulatory Information

- Complies with Indian Pharmacopoeia (IP) standards
- Not classified as hazardous under GHS, OSHA, or REACH
- Subject to pharmaceutical regulatory controls

16. Other Information

- This MSDS is prepared based on available data and current regulations
- Information is believed to be accurate but no warranty is expressed or implied
- Product intended for professional and industrial use only
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.