

Material Safety Data Sheet (MSDS)

Product Name: Sodium Bicarbonate EP 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
- **Grade:** EP (European Pharmacopoeia)
- **Chemical Name:** Sodium Hydrogen Carbonate
- **CAS Number:** 144-55-8
- **Molecular Formula:** NaHCO_3
- **Recommended Uses:** Pharmaceutical excipient, laboratory reagent, food and chemical applications.

2. Hazard Identification

- Not classified as hazardous according to GHS regulations
- Non-flammable and non-explosive material
- May cause mild irritation to eyes, skin, or respiratory tract if excessive dust is inhaled
- No significant environmental hazards known

3. Composition / Information on Ingredients

Sodium Bicarbonate EP Grade is a single-component substance.

It contains **Sodium Bicarbonate (CAS No. 144-55-8)** with a purity of **not less than 99.0%**, conforming to **European Pharmacopoeia (EP)** specifications.

No hazardous impurities are present within the limits defined by applicable pharmacopeial standards.

4. First-Aid Measures

- **Inhalation:** Move the affected person to fresh air. Seek medical attention if symptoms persist.
 - **Skin Contact:** Wash the affected area thoroughly with soap and water.
 - **Eye Contact:** Rinse cautiously with clean water for at least 15 minutes. Consult a physician if irritation continues.
 - **Ingestion:** Rinse mouth with water. Drink water. Seek medical advice if large quantities are ingested.
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5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Water spray, foam, dry chemical powder, or carbon dioxide
 - **Specific Hazards:** Product is non-combustible; may release carbon dioxide upon thermal decomposition
 - **Protective Equipment:** Use self-contained breathing apparatus if required
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6. Accidental Release Measures

- Avoid raising dust
 - Sweep or vacuum spilled material and collect in suitable containers
 - Prevent product from entering drains and waterways
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7. Handling and Storage

- Handle in accordance with good industrial hygiene practices

- Avoid inhalation of dust
- Store in a cool, dry, well-ventilated place
- Keep containers tightly closed and protected from moisture

8. Exposure Controls / Personal Protection

- **Engineering Controls:** Adequate ventilation
- **Personal Protective Equipment:**
 - Safety goggles
 - Protective gloves
 - Dust mask or respirator if dust levels are high

9. Physical and Chemical Properties

- **Appearance:** White crystalline or granular powder
- **Odor:** Odorless
- **pH (1% aqueous solution):** Approximately 8.3
- **Solubility:** Soluble in water
- **Decomposition Temperature:** Above 50°C
- **Bulk Density:** Approximately 0.6–1.0 g/cm³

10. Stability and Reactivity

- Stable under recommended storage conditions
- Avoid exposure to strong acids and excessive heat
- Decomposes to release carbon dioxide when heated

11. Toxicological Information

- Low acute toxicity
- May cause mild irritation to eyes, skin, or respiratory tract

- No known chronic or carcinogenic effects under normal conditions of use

12. Ecological Information

- Not expected to be harmful to aquatic organisms
- Inorganic substance; does not bioaccumulate
- No known adverse environmental effects

13. Disposal Considerations

- Dispose of product in accordance with local and national regulations
- Small quantities may be disposed of as non-hazardous industrial waste

14. Transport Information (Detailed)

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

Road Transport (ADR/RID):

Not classified as dangerous goods. No special labeling or documentation required.

Sea Transport (IMDG):

Not regulated as hazardous. Not a marine pollutant.

Air Transport (IATA):

Not restricted for air transport.

Special Precautions:

Keep containers dry and tightly closed. Protect from moisture and mechanical damage. Avoid dust formation during handling.

15. Regulatory Information

- Conforms to European Pharmacopoeia (EP) standards
- Not classified as hazardous under GHS, OSHA, or REACH

- Approved for pharmaceutical and related applications

16. Other Information

The information contained in this MSDS is based on current knowledge and is believed to be accurate.

It is provided for guidance only and does not constitute a warranty.

Users are responsible for determining suitability for their specific applications.

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- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.