

Material Safety Data Sheet (MSDS)

Product Name: Sodium Bicarbonate USP 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

- **Chemical Name:** Sodium Bicarbonate
- **Synonyms:** Bicarbonate of soda, Baking soda
- **Chemical Formula:** NaHCO_3
- **CAS Number:** 144-55-8
- **USP Grade:** Yes

2. Composition / Information on Ingredients

- **Substance:** Sodium Bicarbonate (NaHCO_3)
- **Purity:** $\geq 99\%$
- **Impurities:** Trace amounts of moisture or insoluble matter

3. Hazards Identification

- **Emergency Overview:** Non-hazardous under normal conditions.
 - **Health Hazards:**
 - May cause mild irritation to eyes, skin, or respiratory tract if inhaled or contacted.
 - **Environmental Hazards:** Not considered hazardous.
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4. First Aid Measures

- **Inhalation:** Move to fresh air; seek medical attention if symptoms persist.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse thoroughly with water for at least 15 minutes.
 - **Ingestion:** Rinse mouth; drink water; seek medical attention if discomfort occurs.
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5. Firefighting Measures

- **Suitable Extinguishing Media:** Water, dry chemical, carbon dioxide, or foam.
 - **Special Hazards:** Decomposes on heating to release carbon dioxide; may react with acids.
 - **Protective Equipment:** Wear full protective clothing and self-contained breathing apparatus (SCBA) if necessary.
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6. Accidental Release Measures

- **Personal Precautions:** Use protective gloves, masks, and goggles.
 - **Environmental Precautions:** Prevent from entering drains or waterways.
 - **Methods of Cleaning:** Sweep or vacuum carefully and place in suitable container for disposal.
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7. Handling and Storage

- **Handling:** Avoid generating dust. Wash hands after handling.
- **Storage:** Store in a cool, dry, well-ventilated area. Keep container tightly closed.
- **Incompatibilities:** Strong acids, moisture-sensitive compounds.

8. Exposure Controls / Personal Protection

- **Exposure Limits:** No occupational exposure limit established.
- **Engineering Controls:** Adequate ventilation.
- **Personal Protective Equipment (PPE):**
 - Respiratory protection: Dust mask if needed
 - Hand protection: Gloves
 - Eye protection: Safety goggles
 - Skin protection: Protective clothing

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH:** 8.3 (1% solution in water)
- **Melting Point:** Decomposes at ~50°C
- **Solubility:** Soluble in water; insoluble in alcohol
- **Specific Gravity:** 2.20 g/cm³

10. Stability and Reactivity

- **Stability:** Stable under normal conditions
- **Conditions to Avoid:** Moisture, heat, strong acids
- **Hazardous Decomposition Products:** CO₂ on heating
- **Incompatible Materials:** Strong acids, strong oxidizers

11. Toxicological Information

- **Acute Toxicity:** Low toxicity; oral LD₅₀ (rat) > 4 g/kg
- **Chronic Toxicity:** Not known to cause chronic effects

- **Irritation:** Mild eye and skin irritation possible
 - **Sensitization:** Not reported
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12. Ecological Information

- **Environmental Fate:** Biodegradable; low environmental toxicity
 - **Aquatic Toxicity:** Minimal, may affect pH if in large quantities
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13. Disposal Considerations

- Dispose of in accordance with local regulations
 - Avoid release into the environment
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14. Transport Information (Detailed)

- **UN Number:** Not regulated
- **UN Proper Shipping Name:** Sodium Bicarbonate
- **Transport Hazard Class:** Not classified as hazardous
- **Packing Group:** Not applicable
- **Label Requirements:** None required under standard regulations
- **Marine Pollutant:** No
- **Special Precautions for Transport:**
 - Avoid contamination with moisture
 - Keep in tightly closed containers during transport
 - Handle with care to prevent spillage and dust formation
- **Transportation Modes:**
 - **Road (ADR/RID):** Non-hazardous, standard bulk packaging
 - **Air (IATA/ICAO):** Non-hazardous, packed in strong, dry containers
 - **Sea (IMDG):** Non-hazardous, prevent contact with wet cargo holds

- **Emergency Response:** In case of accidental release during transport, sweep carefully, avoid dust, and prevent entry into watercourses

15. Regulatory Information

- **GHS Classification:** Not hazardous
- **US FDA:** GRAS (Generally Recognized as Safe)
- **European Regulations:** Listed under REACH; not classified as dangerous
- **Other Regulations:** Complies with USP and Indian Pharmacopoeia standards

16. Other Information

- The information provided is believed to be accurate and reliable.
- Users should verify suitability for their own use and comply with local 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.