

Material Safety Data Sheet (MSDS)

Product Name: Sodium Bicarbonate BP Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

1101- City Centre 2,

Science City Road,

Sola Ahmedabad Gujarat,

India - 380060.

Contact No.: +91 97272 88479

Email: info@rawpharmabiz.com

Website: www.rawpharmabiz.com

1. Identification of the Substance/Preparation and Company

Product Name: Sodium Bicarbonate

Synonyms: Baking Soda, Sodium Hydrogen Carbonate

Chemical Formula: NaHCO_3

CAS No.: 144-55-8

Molecular Weight: 84.01 g/mol

Intended Use: Used in pharmaceuticals (BP Grade), food industry, laboratory reagent, and personal care formulations.

2. Hazard Identification

- **Classification:** Not classified as hazardous according to GHS.
- **Physical Hazards:** None.
- **Health Hazards:** May cause mild irritation to eyes, skin, or respiratory tract upon prolonged exposure.

- **Environmental Hazards:** Not hazardous to the environment.
- **Signal Word:** None required.

3. Composition / Information on Ingredients

Chemical Name: Sodium Bicarbonate

Chemical Formula: NaHCO_3

CAS Number: 144-55-8

Purity: $\geq 99\%$ (BP Grade)

4. First Aid Measures

- **Inhalation:** Move person to fresh air. Seek medical attention if symptoms persist.
- **Skin Contact:** Wash with water and soap. Get medical attention if irritation occurs.
- **Eye Contact:** Rinse with plenty of water for at least 15 minutes. Seek medical help if irritation persists.
- **Ingestion:** Rinse mouth with water. Drink water and seek medical advice if large amounts are ingested.

5. Fire Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or carbon dioxide.
- **Specific Hazards:** Non-flammable and non-explosive.
- **Protective Equipment:** Firefighters should wear appropriate protective gear.

6. Accidental Release Measures

- **Personal Precautions:** Avoid dust formation. Use protective mask and gloves.
- **Environmental Precautions:** Avoid release into drains or watercourses.
- **Cleanup Methods:** Sweep up and place in suitable container for disposal. Wash area with water.

7. Handling and Storage

- **Handling:** Avoid contact with eyes and skin. Prevent dust formation.
- **Storage:** Store in a cool, dry place away from acids and moisture. Keep container tightly closed.

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** Not established.
- **Personal Protective Equipment:**
 - **Respiratory Protection:** Dust mask if airborne concentration is high.
 - **Eye Protection:** Safety goggles.
 - **Skin Protection:** Gloves and protective clothing.
 - **Hygiene Measures:** Wash hands thoroughly after handling.

9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
- **Odor:** Odorless
- **pH (1% solution):** 8.3
- **Solubility:** Soluble in water
- **Melting Point:** Decomposes at 270°C
- **Density:** 2.16 g/cm³
- **Boiling Point:** Not applicable
- **Flash Point:** Non-flammable

10. Stability and Reactivity

- **Stability:** Stable under normal storage conditions.
- **Incompatible Materials:** Acids, moisture, and strong oxidizing agents.
- **Decomposition Products:** Carbon dioxide and sodium carbonate upon heating.

11. Toxicological Information

- **Acute Toxicity:** Low toxicity.
- **Skin Corrosion/Irritation:** May cause mild irritation.
- **Serious Eye Damage/Irritation:** May cause slight irritation.
- **Respiratory Irritation:** Prolonged exposure may cause minor irritation.
- **Carcinogenicity:** Not classified as carcinogenic.

12. Ecological Information

- **Ecotoxicity:** Non-toxic to aquatic life.
- **Persistence and Degradability:** Readily dissociates in water to natural ions.
- **Bioaccumulative Potential:** Negligible.
- **Mobility in Soil:** High solubility; unlikely to accumulate.

13. Disposal Considerations

- **Product:** Dispose of in accordance with local, regional, and national regulations.
- **Packaging:** Recycle or dispose of safely after cleaning.

14. Transport Information (Detailed Information)

UN Number: Not applicable (non-hazardous)

UN Proper Shipping Name: Sodium Bicarbonate

Transport Hazard Class: Non-regulated

Packing Group: Not applicable

Environmental Hazards: None

Detailed Mode of Transport Guidance:

- **By Road (ADR/RID):** Not classified as dangerous goods. Can be transported in sealed containers, avoiding moisture.
- **By Sea (IMDG):** Non-hazardous; not a marine pollutant. Ensure dry storage during shipment.
- **By Air (IATA):** Not classified as dangerous goods; pack in moisture-resistant packaging.

- **Special Precautions:**

- Keep containers tightly sealed during transport.
- Avoid mixing with acids during transit.
- Prevent exposure to humidity and water to avoid caking.
- Label clearly as “Sodium Bicarbonate BP Grade – Non-Hazardous Chemical.”
- Follow standard transport regulations for non-hazardous materials.

15. Regulatory Information

- **Regulation Compliance:**

- Conforms to BP (British Pharmacopoeia) standards.
- Not listed as hazardous under OSHA, REACH, or GHS.
- Not subject to chemical safety assessment.

16. Other Information

Disclaimer: The information provided is believed to be accurate and reliable as of the date of revision. However, it is provided without any warranty, express or implied. The user is responsible for ensuring suitability for their particular use.

- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.