



Material Safety Data Sheet (MSDS)

Product Name: Sodium Bicarbonate Food Grade

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd
1101- City Centre 2,
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1. Identification of the Substance/Preparation and Company

Product Name: Sodium Bicarbonate Food Grade

Synonyms: Baking Soda, Sodium Hydrogen Carbonate

Recommended Use: Food additive, leavening agent, pH buffer, and neutralizing agent.

2. Hazard Identification

- **GHS Classification:** Not classified as hazardous under GHS criteria.
- **Label Elements:** None required.
- **Hazard Statements:** Non-hazardous substance.
- **Precautionary Statements:** Avoid dust formation. Use in well-ventilated areas.
- **Emergency Overview:** White crystalline powder. Odorless. Non-flammable.

3. Composition / Information on Ingredients

Sodium Bicarbonate Food Grade is a single-component substance. It contains 100% Sodium Bicarbonate (NaHCO_3) with CAS Number 144-55-8. No other ingredients, additives, or impurities are present in concentrations that would contribute to health or environmental hazards.

4. First Aid Measures

- **Inhalation:** Move to fresh air. Seek medical attention if irritation persists.
 - **Skin Contact:** Wash with soap and water.
 - **Eye Contact:** Rinse thoroughly with water for several minutes. Get medical attention if irritation continues.
 - **Ingestion:** Rinse mouth with water. Seek medical advice if large amounts are swallowed.
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5. Fire Fighting Measures

- **Flammability:** Non-flammable.
 - **Extinguishing Media:** Use media suitable for surrounding fire.
 - **Special Hazards:** May release carbon dioxide at high temperatures.
 - **Protective Equipment:** Firefighters should wear protective clothing and self-contained breathing apparatus if required.
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6. Accidental Release Measures

- Avoid generating dust.
 - Sweep or vacuum material and place in suitable container for disposal.
 - Prevent entry into drains or watercourses.
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7. Handling and Storage

- **Handling:** Avoid contact with eyes. Prevent dust accumulation.
 - **Storage:** Store in tightly closed containers in a cool, dry, and well-ventilated area.
 - **Incompatible Materials:** Acids, moisture.
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8. Exposure Controls / Personal Protection

- **Exposure Limits:** Not established.
 - **Engineering Controls:** Provide adequate ventilation.
 - **Personal Protection:**
 - Respiratory: Dust mask if needed.
 - Eye Protection: Safety glasses.
 - Skin Protection: Protective gloves.
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9. Physical and Chemical Properties

- **Appearance:** White crystalline powder
 - **Odor:** Odorless
 - **pH (1% solution):** 8.3
 - **Melting Point:** Decomposes at 270°C
 - **Solubility in Water:** 9.6 g/100 ml (20°C)
 - **Density:** 2.16 g/cm³
 - **Boiling Point:** Not applicable
 - **Vapor Pressure:** Not applicable
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10. Stability and Reactivity

- **Chemical Stability:** Stable under normal conditions.
 - **Incompatible Materials:** Strong acids.
 - **Hazardous Decomposition Products:** Carbon dioxide and sodium carbonate.
 - **Conditions to Avoid:** High temperature and moisture.
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11. Toxicological Information

- **Acute Toxicity:** Non-toxic.
- **Skin and Eye Contact:** May cause mild irritation.

- **Inhalation:** May cause temporary respiratory irritation.
 - **Chronic Effects:** No known chronic toxicity.
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12. Ecological Information

- **Ecotoxicity:** Not harmful to aquatic life.
 - **Biodegradability:** Inorganic compound – does not bioaccumulate.
 - **Mobility:** Highly soluble in water.
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13. Disposal Considerations

- Dispose of in accordance with local, regional, and national regulations.
 - Avoid release to the environment.
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14. Transport Information (Detailed)

UN Number: Not applicable (non-regulated substance)

UN Proper Shipping Name: Sodium Bicarbonate

Transport Hazard Class: Not classified as hazardous for transport

Packing Group: Not applicable

Label: None required

Marine Pollutant: No

Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable

Special Precautions:

- Ensure packaging is sealed and dry during transit.
- Avoid contact with acids or moisture during shipping.
- Handle with care to prevent bag rupture and dust formation.

Mode-wise Details:

- **By Road (ADR/RID):** Not regulated – can be transported in sealed HDPE or paper bags.
- **By Air (IATA):** Not restricted – classified as non-dangerous goods.
- **By Sea (IMDG):** Not restricted – stable under normal shipping conditions.

- **By Rail:** No restrictions apply.

Additional Information:

Sodium Bicarbonate Food Grade is considered a **non-hazardous, environmentally safe** chemical suitable for international and domestic transport without special labeling or documentation under UN, IATA, or IMDG regulations.

15. Regulatory Information

- Not listed as hazardous under any chemical regulations.
 - Complies with **FAO/WHO Food Additive Standards** and **Food Chemicals Codex (FCC)** requirements.
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16. Other Information

Disclaimer: The information provided in this MSDS is accurate to the best of our knowledge as of the revision date. The data is intended to describe safety requirements, not to guarantee specific properties.

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