

MATERIAL SAFETY DATA SHEET

Review Date: 26.09.2026

1. Identification

Product Name: Sodium Bicarbonate

CAS No: 144-55-8

Synonym: Sodium hydrogen carbonate; Bicarbonate of soda

Recommended Use: Pharmaceutical, food, laboratory and industrial applications.

Details of the supplier of the safety data sheet

Company: Chemignition Laboratory. India.

Emergency Contact detail: www.chemignition.com

2. Hazard(s) identification

GHS Classification: Not classified as hazardous under GHS based on available product safety information.

Signal Word: None

Hazard Statements:

No hazard statements required under GHS/OSHA classification.

Dust may cause mild mechanical irritation to eyes or respiratory tract.

Pictograms: None required

3. Composition/Information on Ingredients

Substance: Sodium Bicarbonate

Purity: As per applicable Chemignition product specification / batch COA

Chemical Formula: NaHCO_3

Molecular Weight: 84.01 g/mol

Concentration: Product supplied as the named substance; see batch COA/specification

4. First-Aid Measures

General: Remove contaminated clothing and wash before reuse.

Inhalation: Move to fresh air. If symptoms persist, seek medical attention.

Skin Contact: Wash with soap and water. Get medical help if irritation occurs.

Eye Contact: Rinse with plenty of water for at least 15 minutes. Seek medical attention if irritation continues.

Ingestion: Large amounts may cause gastrointestinal discomfort. Rinse mouth and seek medical advice if symptoms occur.

5. Fire-Fighting Measures

Flammability: Non-flammable.

Suitable Extinguishing Media: Use extinguishing media suitable for surrounding fire.

Protective Equipment: Firefighters wear self-contained breathing apparatus.

6. Accidental release measures

Personal Precautions: Use appropriate PPE. Avoid breathing dust.

Environmental Precautions: Prevent entry into sewers or water systems.

Cleanup Methods: Collect carefully without generating dust and place in a suitable closed container.

7. Handling and storage

Handling: Avoid dust inhalation and eye/skin contact.

Storage: Store in tightly closed container. Keep in cool, dry, well-ventilated place.

8. Exposure Controls/Personal Protection

Engineering Controls: Provide adequate ventilation where dust is generated.

Personal Protective Equipment:

Respiratory: Use an approved particulate respirator if dust exposure is excessive.

Hands: Chemical resistant gloves.

Eyes: Safety goggles or face shield.

Body: Lab coat or protective clothing.

9. Physical and Chemical Properties

Appearance: White crystalline powder

Odor: Odourless

Boiling Point: Not applicable; decomposes on heating

pH (1% aqueous solution): Approximately 8.3

Solubility: Soluble in water

10. Stability and Reactivity

Stability: Stable under recommended storage conditions

Conditions to Avoid: Excessive heat, moisture and contamination

Incompatible Materials: Acids; contact releases carbon dioxide

Hazardous Decomposition Products: Carbon dioxide and sodium carbonate on heating

11. Toxicological Information

Acute Toxicity

Acute Toxicity: Low acute toxicity; avoid unnecessary ingestion and dust exposure.

Potential Health Effects:

Inhalation: Dust may cause mechanical irritation.

Skin: Prolonged or repeated contact may cause mild irritation.

Eyes: Dust may cause mechanical irritation.

Ingestion: Large amounts may cause gastrointestinal discomfort.

12. Ecological Information

Ecotoxicity: Not expected to present significant environmental hazard under normal use; avoid uncontrolled release.

Persistence and Degradability: Inorganic substance; biodegradability is not applicable.

Bioaccumulation/Accumulation: Bioaccumulation is not expected.

Mobility: Water-soluble; may be mobile in soil and water.

13. Disposal Considerations

Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a Hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

14. Transport Information

UN Number: Not regulated as hazardous for transport.

DOT/IMDG/IATA: Not classified as dangerous goods.

15. Regulatory Information

OSHA/GHS: Not classified as hazardous based on available product safety information.

GHS labelling: No hazard pictogram or signal word required based on current classification.

Transport classification: Not regulated as dangerous goods under DOT/IMDG/IATA.

Food/pharmaceutical use is subject to the applicable grade and destination-market regulations.

Regulatory status should be confirmed for the intended grade, use and destination market.

16. Other Information

Prepared By: Chemignition Laboratory

Disclaimer

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, Transportation, disposal and release and is not to be considered a warranty or quality specification. The information Relates only to the specific material designated and may not be valid for such material used in combination with any other Materials or in any process, unless specified in the text.

End of MSDS