

SAFETY DATA SHEET

SODIUM BICARBONATE (FOOD GRADE)

CAS No.: 144-55-8

This Safety Data Sheet is compiled from well-established published chemical, GHS classification and regulatory reference sources for this substance. It is supplied by Suraj Chemicals as the distributor/supplier of record and is not a manufacturer-issued document. Users should also consult the specific manufacturer's SDS where available.

1. IDENTIFICATION

Product Name	Sodium Bicarbonate (Food Grade)
CAS Number	144-55-8
Recommended Use	Industrial / commercial chemical trading and distribution
Supplier	Suraj Chemicals, No 92, Govindappa Naicken Street, Shiva Complex, Chennai - 600001, India
Emergency Telephone	+91 - 9840284032, 9176135357 / +91 - 44 - 25393652

2. HAZARD(S) IDENTIFICATION

GHS Signal Word	Not classified
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HAZARD CLASSIFICATION

None assigned

HAZARD STATEMENTS

None assigned

PRECAUTIONARY STATEMENTS

None assigned

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Sodium Bicarbonate (Food Grade)
CAS Number	144-55-8
Physical State	Solid
Appearance / Odour	White, odorless, crystalline powder.

4. FIRST-AID MEASURES

Eye Contact	Rinse with water for several minutes if dust causes irritation; seek medical attention if irritation persists.
Skin Contact	Wash off with water; not expected to cause more than transient irritation.
Inhalation	Remove to fresh air; if dust inhalation causes coughing or discomfort, seek medical attention.
Ingestion	Rinse mouth with water; give water to drink; this food ingredient is of low toxicity but seek medical advice if large amounts are ingested or discomfort occurs.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media	Non-combustible; use any extinguishing media suitable for the surrounding fire (water, dry chemical, CO2, foam).
Unsuitable Extinguishing Media	None identified.
Special Hazards	None significant; decomposes on strong heating to release carbon dioxide, which can help smother small fires.

6. ACCIDENTAL RELEASE MEASURES

Measures	Sweep up avoiding excessive dust generation and collect in a suitable container for reuse or disposal; no special environmental precautions are normally needed.
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7. HANDLING AND STORAGE

Handling Precautions	Avoid generating and inhaling dust; use standard industrial hygiene practices.
Storage Conditions	Store in a cool, dry place in a tightly closed container, away from moisture and acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits / PPE	No specific occupational exposure limit established; general nuisance-dust guidance applies (~10 mg/m3 total dust); use a dust mask and safety glasses when handling large quantities.
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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid
Appearance / Odour	White, odorless, crystalline powder.
Boiling Point	Not applicable (decomposes before boiling)
Melting Point	Not applicable (decomposes gradually above ~50 C, fully by ~200 C)
Flash Point	Not applicable (non-flammable solid)
Density / Specific Gravity	~2.2 (true density); bulk density ~0.8-1.0 g/cm ³
Water Solubility	~96 g/L at 20 C, increasing with temperature
pH Value	~8.0-8.5 (1% aqueous solution, mildly alkaline)

10. STABILITY AND REACTIVITY

Stability	Stable under normal conditions; decomposes slowly above ~50 C, releasing carbon dioxide.
Incompatible Materials	Acids (vigorous effervescent reaction releasing CO ₂ gas, which can pressurize closed containers) and strong oxidizers.
Hazardous Decomposition	Sodium carbonate, water and carbon dioxide on heating; reacts with acids to evolve CO ₂ gas.

11. TOXICOLOGICAL INFORMATION

Summary	Low acute toxicity (oral LD50, rat, >4,000 mg/kg); widely used food ingredient and antacid; dust may cause mild mechanical irritation to eyes and respiratory tract; not classified as a carcinogen, mutagen or reproductive toxicant.
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12. ECOLOGICAL INFORMATION

Summary	Not classified as hazardous to the environment; dissociates in water into naturally occurring sodium and bicarbonate ions with no significant aquatic toxicity expected at normal use levels.
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13. DISPOSAL CONSIDERATIONS

Disposal Method	Dispose of in accordance with local regulations; generally suitable for dilution/neutralization to sewer within permitted limits or landfill disposal; not a hazardous waste.
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14. TRANSPORT INFORMATION

UN Number	Not regulated for transport
Transport Hazard Class	Not regulated
Packing Group	Not applicable

15. REGULATORY INFORMATION

Notes	Food-grade material complies with FCC/Codex/FSSAI food additive specifications (INS/E500(ii)); GRAS status in the US (21 CFR 184.1736); not classified as hazardous under GHS, OSHA HCS or EU CLP.
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16. OTHER INFORMATION

Prepared By	Suraj Chemicals, Technical / QA Desk
Date of Issue	29 Sep 2026
Note	This SDS is compiled from well-established published GHS hazard classification data and general chemical reference sources for this substance, in the standard 16-section format. Values are believed accurate but Suraj Chemicals makes no warranty, express or implied, regarding their completeness. Users should evaluate suitability for their own specific use.

(This document is computer generated and therefore does not require any signature.)

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+91 - 9840284032, 9176135357
+91 - 44 - 25393652, 42130281
sales@surajchemicals.com
surajchemicals@yahoo.com

No 92, Govindappa Naicken Street
Shiva Complex, Chennai - 600001
www.surajchemicals.com
GST NO : 33ACEPV8190L1ZZ

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