



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
Periyamet, Chennai – 600003, India
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admin@supremepetrochemicals.com

SAFETY DATA SHEET (SDS)

Sodium Bicarbonate *SDS*

REV 3.1
29 JULY 2026
GHS REV.11 (2025)

CAS **144-55-8** EC **205-633-8** SIGNAL WORD **DANGER**

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY

Product Name	Sodium Bicarbonate
Product Type	Industrial chemical — inorganic salt
Chemical Family	Bicarbonate / Hydrogen Carbonate
CAS No.	144-55-8
EC No.	205-633-8
Intended Use	Industrial / professional use as described on the SPC product page.
Restrictions on Use	Industrial / professional use only. Confirm suitability for final application before use.
Supplier	Supreme Petro Chemicals
Address	No. 145, 1st Floor, Raja Muthiah Road, Periyamet, Chennai – 600003, India
Emergency Contact	Sanketh — +91 86087 80096 · Sudarshan — +91 81979 47045
Email	admin@supremepetrochemicals.com
Product Page	https://www.supremepetrochemicals.com/products/sodium-bicarbonate
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Not classified as hazardous under GHS/CLP/OSHA HCS/WHMIS based on available data.

GHS Classification	Not classified as hazardous according to available GHS notifications
Signal Word	Not classified
GHS Pictograms	None required

HAZARD STATEMENTS



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- None — substance is not classified as hazardous under GHS.

PRECAUTIONARY – PREVENTION

- P260 — Do not breathe dust.
- P271 — Use only outdoors or in a well-ventilated area.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY – RESPONSE / STORAGE / DISPOSAL

- P304+P340 — IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P501 — Dispose of contents/container in accordance with local regulations.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Sodium Bicarbonate	144-55-8	205-633-8	100	Not classified as hazardous

No H-statements apply. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air. Keep comfortable for breathing. If symptoms persist, seek medical advice.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if irritation persists.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention.
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice if large quantities ingested.



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Note to Physician	Treat symptomatically. Sodium bicarbonate is of low acute toxicity; supportive care is generally sufficient.
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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Product is not flammable. Use extinguishing media appropriate to surrounding fire (water, CO ₂ , dry powder, foam).
Unsuitable Media	No specific restrictions; high-pressure water jet may disperse fine dust — avoid creating dust clouds.
Specific Hazards	Non-flammable solid. On strong heating (>270 °C) decomposes to sodium carbonate, CO ₂ and water. No fire or explosion risk under normal conditions.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) when fighting fires in the vicinity.
Special Procedures	Evacuate non-essential personnel. Prevent run-off from entering drains and waterways. Cool containers exposed to flame with water.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate area. Use PPE as described in Section 8. Avoid generating dust. Wear dust mask/respirator if significant dust is created.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Sodium bicarbonate can raise pH in aquatic systems at high concentrations.
Containment / Clean-up	Sweep or vacuum up spilled material (do not use compressed air). Collect in labelled, sealed containers for disposal per Section 13.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid breathing dust. Avoid contact with strong acids (CO ₂ evolution). Keep containers tightly closed.
Hygiene	Wash hands after handling. Do not eat, drink or smoke when using. Remove contaminated clothing before reuse.
Storage Conditions	Store in original, tightly closed containers in a cool, dry, well-ventilated area. Protect from moisture and direct sunlight.



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Storage Temperature	Ambient (below 30 °C preferred). Avoid exposure to elevated temperatures (>50 °C) which may initiate slow decomposition.
Incompatible Materials	Strong acids (vigorous CO ₂ evolution), strong oxidising agents. Avoid contact with aluminium chloride at elevated temperature.
Segregation	Segregate from food, drink, animal feed and acid chemicals. Keep away from incompatible materials listed above.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Bicarbonate (CAS 144–55–8): No specific OSHA PEL or ACGIH TLV established. Apply ALARA / good industrial hygiene practice. Confirm local OEL (OSHA/NIOSH/India CPCB/regional) before use.
Engineering Controls	Use local exhaust ventilation or general dilution ventilation to control dust levels below occupational exposure limits. Avoid generating excessive dust.
Respiratory Protection	For dusty operations where OEL may be exceeded: NIOSH/EN–approved particulate respirator (P95 / FFP2 or higher). SCBA for emergency/bulk spillage situations.
Hand / Eye / Skin	Gloves: chemical-resistant (nitrile or latex) for prolonged contact. Eyes: EN 166 / ANSI Z87.1 safety glasses or dust goggles. Skin: lab coat or apron. Safety footwear. Provide eyewash station.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline powder or granules; odorless
Odour	Odorless
Odour Threshold	Not established
pH	~8.3 (1% aqueous solution at 25 °C); not applicable to dry powder
Melting / Freezing Point	Decomposes before melting; decomposition begins at approx. 50 °C (loss of CO ₂ from moist material); complete decomposition of dry solid at approx. 270 °C
Boiling Point / Range	Not applicable — decomposes before reaching boiling point
Flash Point	Not applicable — substance is not flammable
Auto-ignition Temperature	Not applicable — non-flammable solid
Flammability Limits	Not applicable — non-flammable solid
Vapour Pressure	Negligible at ambient temperature (solid); not applicable



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Vapour Density (air = 1)	Not applicable — solid powder; vapour not generated at ambient conditions
Relative Density	2.159 g/cm ³ at 20 °C (NTP, 1992) — denser than water
Solubility in Water	Approx. 10 g/100 mL at 25 °C (1 in 10); insoluble in ethanol
Log Pow (Partition Coeff.)	Not applicable — ionic inorganic compound
Evaporation Rate	Not applicable — solid
Viscosity	Not applicable — solid
VOC Content	0% (non-volatile solid)

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Slowly decomposes on prolonged heating above 50 °C in moist conditions; complete thermal decomposition of dry solid at ~270 °C to Na ₂ CO ₃ , CO ₂ and H ₂ O.
Conditions to Avoid	Elevated temperatures (>50 °C for moist material; >270 °C for dry solid), moisture ingress in storage, and contact with incompatible materials.
Incompatible Materials	Strong acids (vigorous CO ₂ evolution and pH change). Strong oxidising agents (nitric acid, permanganates, peroxides). Aluminium chloride at elevated temperature.
Hazardous Decomposition	Thermal decomposition produces sodium carbonate (Na ₂ CO ₃), carbon dioxide (CO ₂) and water (H ₂ O). No toxic gases generated under normal fire conditions.
Hazardous Reactions	No hazardous polymerisation. Reacts with acids to release CO ₂ gas (pressure build-up risk in sealed containers). No other hazardous reactions under normal storage.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	Low acute oral toxicity. LD ₅₀ (rat, oral) reported as >8,000 mg/kg (PubChem/RTECS). Not classified under GHS.
Acute Dermal Toxicity	Low acute dermal toxicity. Not classified under GHS. May cause mild mechanical irritation with prolonged contact.
Acute Inhalation Toxicity	Dust may cause mild respiratory irritation. Not classified as acutely toxic by inhalation under GHS. LC ₅₀ data not available from public sources.



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Skin Irritation	May cause mild, transient irritation with prolonged or repeated contact. Not classified as a skin irritant under GHS.
Eye Irritation	Dust or powder may cause mechanical eye irritation. Not classified as serious eye irritant under GHS. Flush thoroughly if contact occurs.
Sensitisation	No evidence of skin or respiratory sensitisation. Not classified.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, ACGIH or OSHA.
Mutagenicity	No evidence of mutagenicity in available data. Not classified.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Sodium bicarbonate has low acute aquatic toxicity. LC ₅₀ (fish, 96h) and EC ₅₀ (daphnia, 48h) data indicate low hazard at typical concentrations. Not classified for aquatic toxicity under GHS.
Persistence / Degradability	Inorganic compound; not subject to biodegradation. Dissociates in water to Na ⁺ and HCO ₃ ⁻ ions, which are natural components of water systems.
Bioaccumulation	Not expected to bioaccumulate (ionic inorganic salt; log Pow not applicable).
Mobility in Soil	Highly water-soluble; will leach through soil. Avoid uncontrolled large-scale release to ground or surface water.
Other Adverse Effects	Large quantities released to aquatic systems may raise pH, potentially affecting aquatic organisms. Avoid uncontrolled environmental release.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorized waste contractor in accordance with local regulations. Sodium bicarbonate is of low hazard but must be disposed of in compliance with applicable rules.
Contaminated Packaging	Empty containers may retain residues; handle with care. Rinse thoroughly before recycling. Dispose of uncleanable containers as chemical waste.
Indian Regulations	Follow Hazardous Wastes (Management, Handling and Transboundary Movement) Rules 2016 and applicable State Pollution Control Board requirements. Assign waste code per actual process and local regulation.



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SECTION 14 TRANSPORT INFORMATION

PARAMETER	UN / ADR (ROAD)	IMDG (SEA)	IATA (AIR)
UN Number	Not regulated	Not regulated	Not regulated
Proper Shipping Name	Not regulated	Not regulated	Not regulated
Class	Not regulated	Not regulated	Not regulated
Packing Group	Not regulated	Not regulated	Not regulated
Marine Pollutant	No	No	—

Sodium bicarbonate (CAS 144–55–8) has no UN transport entry and is not subject to ADR, IMDG or IATA dangerous goods regulations. Use approved, compatible containers. Verify current carrier and customs requirements before international shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Sodium bicarbonate is listed on the REACH inventory. Not classified as hazardous under CLP Regulation (EC) No 1272/2008. Observe applicable workplace chemical and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS/HazCom–aligned 16–section SDS format. Not listed as hazardous under OSHA HCS. TSCA inventory status: listed. Verify SNUR status before US import or distribution.
India	Observe applicable Indian MSIHC Rules 1989, Factories Act, Environmental Protection Act, Hazardous Waste Rules 2016, and applicable State Pollution Control Board requirements.
Other Jurisdictions	Canada WHMIS 2015/HPR: classify under WHMIS using Section 2 classification. Australia AICS: check inventory status before import. China GB/T: use applicable GB/T SDS requirements where marketed. GCC/Middle East: observe applicable local GHS–aligned requirements. Regulatory scope limitation: final market placement requires confirmation of local OELs, waste code and restrictions.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16–section format
Revision Date	24 June 2026
Version	3.0 (supersedes prior issues)



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Disclaimer

Information is given in good faith and believed accurate at issue. It does not constitute a specification or guarantee; the user is responsible for safe use, handling and compliance.

FULL TEXT OF H-STATEMENTS

- No H-statements apply — Sodium Bicarbonate is not classified as hazardous under GHS.

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