



SUPREME PETRO CHEMICALS

IMPORTER & DISTRIBUTOR OF INDUSTRIAL CHEMICALS ·
SINCE 1997

No. 145, 1st Floor, Raja Muthiah Road,
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SAFETY DATA SHEET (SDS)

Soda Ash *SDS*

REV 3.1

29 JULY 2026

GHS REV.11 (2025)

CAS 497-19-8

EC 207-838-8

SIGNAL WORD **DANGER**

GHS05

Corrosive

GHS07

Harmful / Irritant

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

Product Name	Soda Ash
Product Type	Sodium Carbonate — corrosive / irritant chemical
Chemical Family	Inorganic Carbonate Salt
CAS No.	497-19-8
EC No.	207-838-8
Intended Use	Industrial / professional use — glass manufacturing, water treatment, detergents, chemical synthesis, pH adjustment, and related applications 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/soda-ash
SDS Revision	July 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

Eye Dam. 1; Eye Irrit. 2; Acute Tox. 4 (Inhalation); STOT SE 3



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GHS Classification	Eye Dam. 1; Eye Irrit. 2; Acute Tox. 4 (Inhalation); STOT SE 3
Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive) GHS07 (Harmful / Irritant)

HAZARD STATEMENTS

- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness

PRECAUTIONARY — PREVENTION

- P210 — Keep away from heat, hot surfaces, sparks, open flames. No smoking.
- P233 — Keep container tightly closed.
- P240 — Ground/bond container and receiving equipment.
- P241 — Use explosion-proof electrical/ventilating/lighting equipment.
- P242 — Use only non-sparking tools.
- P243 — Take precautionary measures against static discharge.
- P260 — Do not breathe dust / fume / gas / mist / vapours / spray.
- P271 — Use only outdoors or in a well-ventilated area.
- P272 — Contaminated work clothing should not be allowed out of the workplace.
- P273 — Avoid release to the environment.
- P280 — Wear protective gloves / eye protection / face protection.

PRECAUTIONARY — RESPONSE / STORAGE / DISPOSAL

- P301+P310 — IF SWALLOWED: Immediately call a POISON CENTER or doctor.
- P303+P361+P353 — IF ON SKIN OR HAIR: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- 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.



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- P331 — Do NOT induce vomiting.
- P403+P235 — Store in a well-ventilated place. Keep cool.
- P405 — Store locked up.
- 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 Carbonate (Soda Ash)	497-19-8	207-838-8	≥ 99	Eye Dam. 1; Eye Irrit. 2; Acute Tox. 4 (Inhal.); STOT SE 3 — H318, H319, H332, H335, H336

Percentages are by weight. Full text of H-statements listed in Section 16.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air and keep comfortable for breathing. If symptoms (coughing, throat irritation) persist, seek medical attention.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water for at least 15 minutes. Seek medical attention if irritation or symptoms persist.
Eye Contact	Rinse cautiously with water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention — risk of serious eye damage.
Ingestion	Rinse mouth with water. Do not induce vomiting unless directed by medical personnel. Seek medical advice immediately.
Note to Physician	Treat symptomatically based on exposure route and severity. No specific antidote known; supportive care.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Soda ash is non-combustible. Use extinguishing media appropriate for surrounding fire (water spray, CO ₂ , dry chemical, foam).
Unsuitable Media	Direct high-pressure water jet where it may spread the material.



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Specific Hazards	Not flammable. Dust or fine particulate may form irritating atmospheres. Containers may rupture when exposed to fire heat. Thermal decomposition releases CO ₂ and irritating fumes.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) where fire or fumes are present.
Special Procedures	Evacuate non-essential personnel. Prevent contaminated fire-fighting run-off from entering drains and waterways.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area. Avoid dust generation. Use appropriate PPE as specified in Section 8 (eye protection, dust mask, gloves). Ensure adequate ventilation.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Avoid release to the environment. Notify authorities if substantial environmental release occurs.
Containment / Clean-up	Sweep or vacuum up spilled material carefully to avoid dust generation. Collect into labelled, compatible containers for disposal through an approved waste contractor. Do not wash into drains.
Reference to Sections	See Section 8 for PPE, Section 13 for disposal, and Section 15 for regulatory information.

SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use adequate ventilation. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Keep container tightly closed when not in use.
Hygiene	Wash hands thoroughly after handling. Remove contaminated clothing before reuse. Do not eat, drink or smoke when using this product.
Storage Conditions	Store in original, tightly closed compatible containers in a cool, dry, well-ventilated area. Inspect containers regularly for leakage or damage.
Storage Temperature	Ambient temperature (no refrigeration required). Keep away from moisture — soda ash is hygroscopic and will cake or form hydrates on prolonged moisture exposure.



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Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated acids. Aluminium chloride at elevated temperatures. Fluorine.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals. Keep away from acids.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Carbonate (CAS 497–19–8): No universally mandated OEL established in all jurisdictions. ACGIH TLV–TWA and OSHA PEL for sodium carbonate dust are generally in the range of 2–10 mg/m ³ (total / respirable dust); verify current local OEL (OSHA/NIOSH/ACGIH/EU/India) before use. Apply ALARA / good industrial hygiene where no OEL is established.
Engineering Controls	Use closed handling systems or local exhaust ventilation to control dust. General dilution ventilation appropriate for low–exposure tasks. Avoid dust generation during transfer operations.
Respiratory Protection	Where dust levels exceed or may exceed OEL: use a NIOSH–approved or equivalent P95/P100 particulate respirator. Use SCBA for emergency or high–exposure situations.
Hand / Eye / Skin	Gloves: chemical–resistant gloves (nitrile, butyl or neoprene); select appropriate thickness and breakthrough time for the task. Eyes: EN 166 / ANSI Z87.1 chemical splash goggles; add face shield where splash risk is high. Skin: chemical–resistant apron / protective clothing and safety footwear. Provide eyewash station and safety shower at the work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, odourless, hygroscopic powder or granules (dense/light grades available)
Odour	Odourless
Odour Threshold	Not applicable (odourless solid)
pH	11.6 (1% aqueous solution, 25°C); strongly alkaline
Melting / Freezing Point	851°C (anhydrous Na ₂ CO ₃)
Boiling Point / Range	Decomposes on heating — does not boil; thermal decomposition above ~1000°C with loss of CO ₂



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Flash Point	Not applicable — non-flammable inorganic solid
Auto-ignition Temperature	Not applicable — non-flammable
Flammability Limits	Not applicable — non-flammable
Vapour Pressure	Negligible at ambient temperature (non-volatile solid)
Vapour Density (air = 1)	Not applicable (solid; no significant vapour)
Relative Density	2.54 g/cm ³ (anhydrous, at 20°C)
Solubility in Water	Freely soluble — approximately 215 g/L at 20°C. Insoluble in ethanol.
Log Pow (Partition Coeff.)	Not applicable (ionic inorganic salt)
Evaporation Rate	Not applicable (non-volatile solid)
Viscosity	Not applicable (solid)
VOC Content	Zero — inorganic solid, no volatile organic components

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Hygroscopic — may absorb moisture and form hydrated phases (monohydrate, decahydrate) on prolonged exposure to humid air, but remains chemically stable.
Conditions to Avoid	Moisture (causes caking / hydrate formation). Avoid contact with strong acids (vigorous reaction with CO ₂ evolution). Avoid elevated temperatures above decomposition point.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Concentrated mineral acids. Aluminium chloride at elevated temperatures. Fluorine.
Hazardous Decomposition	Thermal decomposition above ~1000°C yields sodium oxide (Na ₂ O) and carbon dioxide (CO ₂). In fire: irritating fumes may be produced.
Hazardous Reactions	Reacts vigorously with strong acids producing CO ₂ gas. No hazardous polymerisation. No hazardous reactions under normal storage conditions.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): approximately 4090 mg/kg (low acute toxicity by ingestion). Classification: not classified for acute oral toxicity under GHS based on available data.
Acute Dermal Toxicity	No reliable acute dermal LD ₅₀ data available. May cause skin irritation on prolonged or repeated contact. Not classified for acute dermal



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	toxicity.
Acute Inhalation Toxicity	LC ₅₀ (rat, 4h, dust/mist): data limited; classified Acute Tox. 4 (Inhalation) — H332 Harmful if inhaled. Irritating to the respiratory tract.
Skin Irritation	May cause mild to moderate skin irritation on prolonged contact. Classified as a skin irritant in some jurisdictions; confirm with current supplier SDS.
Eye Irritation	Classified Eye Dam. 1 (serious eye damage — H318) / Eye Irrit. 2 (H319). Strongly alkaline; can cause serious irreversible eye damage. Immediate eye washing is essential.
Sensitisation	Not classified as a skin or respiratory sensitiser based on reviewed data.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, OSHA or EU CLP on reviewed data.
Mutagenicity	Not classified as mutagenic/genotoxic based on reviewed data. No evidence of mutagenicity in standard Ames test.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	LC ₅₀ (fish, 96h): approximately 300 mg/L (Leuciscus idus). EC ₅₀ (Daphnia, 48h): approximately 265 mg/L. No aquatic environmental hazard classification under GHS based on reviewed data, but avoid uncontrolled release.
Persistence / Degradability	Inorganic salt — not applicable to biodegradability testing. Carbonate ion is naturally present in the environment and readily mineralised.
Bioaccumulation	Not expected to bioaccumulate. Log Pow not applicable (ionic). BCF not relevant for inorganic salts.
Mobility in Soil	Freely soluble in water; mobile in soil and groundwater. Can raise pH of soil and aquatic environments if released in large quantities.
Other Adverse Effects	Can raise pH of receiving waters, potentially affecting aquatic biota. Avoid large uncontrolled releases to aquatic environments or soil. No ozone-depleting potential.



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SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorized waste contractor in accordance with local, state and national regulations. Small quantities may be suitable for licensed landfill or neutralisation depending on local rules.
Contaminated Packaging	Empty containers may retain residue; handle as potentially hazardous until thoroughly cleaned. Return or recycle containers where feasible or dispose through an approved contractor.
Indian Regulations	Manage under applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, Environment Protection Act 1986, and applicable State Pollution Control Board requirements.

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	N/A	No	N/A

Soda Ash (anhydrous sodium carbonate) is not classified as a dangerous good under ADR, IMDG or IATA for standard commercial grades. DG status requires grade and purity verification against current ADR/IMDG/IATA criteria before each shipment. Verify with carrier before international transport. Use UN-certified packaging appropriate to the product.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Registered / notified under REACH where applicable. Classified and labelled per EU CLP Regulation (EC) No 1272/2008 in accordance with Section 2 classification. Observe applicable EU workplace chemical and environmental directives.
OSHA (USA)	Prepared in OSHA HCS/HazCom 2012 aligned 16-section SDS format. Verify TSCA inventory status before US import or distribution.
India	Observe applicable Indian MSIHC Rules 1989 (as amended), Factories Act, Environment Protection Act 1986, Hazardous Waste



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Rules 2016, PCB requirements, and applicable State-level regulations.

Other Jurisdictions

Canada: Classify/label under WHMIS 2015/HPR; Canadian sale may require bilingual SDS and ingredient disclosure. China: Use applicable GB/T SDS and classification requirements where marketed. Australia/GCC: Check local inventory and classification requirements before import or distribution. Final market placement requires confirmation of inventory status, OELs, transport class, 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)
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

- H318 — Causes serious eye damage
- H319 — Causes serious eye irritation
- H332 — Harmful if inhaled
- H335 — May cause respiratory irritation
- H336 — May cause drowsiness or dizziness