



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)

Common Salt (Sodium
Chloride) *SDS*

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

CAS 7647-14-5 EC 231-598-3 SIGNAL WORD DANGER

GHS05

Corrosive

GHS07

Harmful / Irritant

GHS09

Environmental Hazard

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

Product Name	Common Salt (Sodium Chloride)
Product Type	Sodium Chloride — inorganic salt
Chemical Family	Inorganic Chloride Salt
CAS No.	7647-14-5
EC No.	231-598-3
Intended Use	Industrial chemical; food-grade and technical-grade applications including chemical synthesis, water treatment, de-icing, food processing, and laboratory use.
Restrictions on Use	Industrial / professional use as described on the SPC product page. 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/common-salt-sodium-chloride
SDS Revision	July 2026
SDS Version	3.1



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SECTION 2 HAZARD IDENTIFICATION

GHS / CLP Classification: Eye Dam. 1 (H318); Eye Irrit. 2 (H319); Aquatic Chronic 3 (H412). Not classified for other hazard classes based on reviewed source data.

Signal Word	DANGER
GHS Pictograms	GHS05 (Corrosive) GHS07 (Harmful / Irritant) GHS09 (Environmental Hazard)

HAZARD STATEMENTS

- H318 — Causes serious eye damage.
- H319 — Causes serious eye irritation.
- H412 — Harmful to aquatic life with long lasting effects.

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 vapours or 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.



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- P305+P351+P338 — IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
- P331 — Do NOT induce vomiting.
- P312 — Call a POISON CENTER or doctor if you feel unwell.
- 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
Common Salt (Sodium Chloride)	7647-14-5	231-598-1003		Eye Dam. 1 (H318); Eye Irrit. 2 (H319); Aquatic Chronic 3 (H412)

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

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air. If respiratory irritation persists, seek medical attention. Keep comfortable for breathing.
Skin Contact	Remove contaminated clothing. Wash affected skin thoroughly with soap and water. Seek medical attention if 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 (H318).
Ingestion	Rinse mouth. Do not induce vomiting unless directed by medical personnel. Seek medical advice. Note: ingestion of large quantities may cause electrolyte imbalance.
Note to Physician	Treat symptomatically based on exposure route and product hazards. No specific antidote known.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Use extinguishing media appropriate for surrounding materials. Sodium chloride itself is non-combustible; use water, CO ₂ , dry
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	chemical, or foam as appropriate for adjacent fires.
Unsuitable Media	Avoid direct high-pressure water jet where it may spread the material or cause dust clouds.
Specific Hazards	Sodium chloride is non-flammable. In fire conditions, thermal decomposition may produce irritating hydrogen chloride fumes. Dust or fine particulate may cause irritating atmospheres.
Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) when fighting fires involving this product.
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 area. Avoid dust generation. Use appropriate PPE as specified in Section 8. Keep unnecessary personnel away.
Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. Sodium chloride is harmful to aquatic life with long lasting effects (H412) – do not allow large quantities to enter surface water.
Containment / Clean-up	Sweep or vacuum up dry material. Avoid generating dust. Collect material into labelled, compatible containers for disposal through an approved waste contractor. Wash spill area with water.
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 eyes. Avoid generating dust. Handle in closed systems where possible. Avoid inhalation of dust.
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. Keep away from moisture.
Storage Temperature	Store at ambient temperature (typically 15–35 °C). No special temperature control required.



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Incompatible Materials	Strong oxidising agents. Avoid contact with aluminium, magnesium, and reactive metals in the presence of moisture. See Section 10.
Segregation	Segregate from food, drink, animal feed, and incompatible chemicals.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	Sodium Chloride (CAS 7647-14-5): No universally mandated OEL established under OSHA/NIOSH/ACGIH/EU/India as of issue date. Apply ALARA / good industrial hygiene practices. Consult local authority OEL databases and supplier SDS for grade-specific confirmed limits.
Engineering Controls	Use local exhaust ventilation or general dilution ventilation to control dust or aerosol. Ensure eyewash stations and safety showers are available where the product is used.
Respiratory Protection	If airborne dust concentrations cannot be adequately controlled by engineering means, use a NIOSH/EN-approved P95 or P100 particulate respirator. Use SCBA for emergencies or high-concentration exposures.
Hand / Eye / Skin	Gloves: chemical-resistant gloves (e.g. nitrile, PVC, or neoprene). Eye/Face: chemical splash goggles (EN 166 / ANSI Z87.1); add face shield where splash risk exists. Body: chemical-resistant clothing or apron. Safety footwear. Provide eyewash and safety shower where appropriate.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline solid (granules, powder, or flakes depending on grade).
Odour	Odourless.
Odour Threshold	Not applicable (odourless solid).
pH	Approximately 6.7–7.3 (5% aqueous solution at 25 °C). Neutral salt.
Melting / Freezing Point	801 °C (peer-reviewed; source value 800.7 °C — corrected to standard reference).
Boiling Point / Range	1465 °C (peer-reviewed PubChem value; literature range 1413–1465 °C). [SOURCE CORRECTION: source listed this value under Flash Point — re-mapped here.]



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Flash Point	Not applicable — sodium chloride is non-flammable. [SOURCE CORRECTION: source listed 1465 °C here; that value is the boiling point, now moved to Boiling Point row.]
Auto-ignition Temperature	Not applicable — non-combustible inorganic salt.
Flammability Limits	Not applicable — non-flammable.
Vapour Pressure	1 mmHg at 865 °C (peer-reviewed). [SOURCE CORRECTION: source listed this value under Vapour Density — re-mapped here.]
Vapour Density (air = 1)	Not established / not applicable at ambient conditions (very low volatility solid). [SOURCE CORRECTION: source had this row occupied by vapour pressure data, now moved.]
Relative Density	2.17 g/cm ³ at 25 °C (ref. 4 °C water). [SOURCE CORRECTION: source listed this value under Solubility in Water — re-mapped here; consistent with NaCl literature density of 2.165 g/cm ³ .]
Solubility in Water	36.0 g / 100 g water at 25 °C (peer-reviewed). [SOURCE CORRECTION: source listed this value under Log Pow (Partition Coeff.) — re-mapped here; consistent with NaCl known solubility.]
Log Pow (Partition Coeff.)	Not applicable — ionic compound; octanol/water partition coefficient is not meaningful for inorganic salts. [SOURCE CORRECTION: source listed 2.17 here; that value is density, re-mapped to Relative Density.]
Evaporation Rate	Not applicable — non-volatile inorganic solid. [SOURCE CORRECTION: source listed viscosity data under this label — re-mapped to Viscosity.]
Viscosity	1.93 mPa·s (saturated aqueous solution at 25 °C). [SOURCE CORRECTION: source listed this value under Evaporation Rate — re-mapped here.]
VOC Content	Nil — inorganic solid; zero VOC.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage and handling conditions. Hygroscopic — absorbs moisture from air but does not undergo chemical decomposition.
Conditions to Avoid	Avoid excessive heat, moisture ingress, and contamination with incompatible materials.
Incompatible Materials	Strong oxidising agents (nitric acid, chlorine, permanganates, peroxides). Reactive with aluminium chloride (AlCl ₃) under elevated temperature — not a concern in ambient blending or storage. Avoid



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contact with concentrated acids which may evolve hydrogen chloride gas.

Hazardous Decomposition	Thermal decomposition above boiling point (>1413 °C) may produce chlorine and sodium vapours — not a practical concern under normal industrial use. In fire, may produce irritating hydrogen chloride (HCl) fumes.
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Hazardous Reactions	No hazardous polymerisation. No hazardous reactions under normal storage and handling conditions.
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SECTION 11 TOXICOLOGICAL INFORMATION

Acute Oral Toxicity	LD ₅₀ (rat, oral): approximately 3,000 mg/kg (low acute oral toxicity). Not classified for acute oral toxicity under GHS. Large oral doses may cause electrolyte imbalance and cardiovascular effects.
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Acute Dermal Toxicity	Not classified. Mild irritant on prolonged contact with abraded skin. LD ₅₀ data not established for dermal route.
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Acute Inhalation Toxicity	Not classified. Dust or aerosol may irritate the respiratory tract. LC ₅₀ data not established under standard test conditions.
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Skin Irritation	Not classified as a skin irritant under GHS criteria based on reviewed data.
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Eye Irritation	Eye Dam. 1 (H318): Causes serious eye damage. Also classified Eye Irrit. 2 (H319): Causes serious eye irritation. Eye contact with concentrated solutions or dust may cause serious damage.
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Sensitisation	No evidence of skin or respiratory sensitisation.
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Carcinogenicity	Not listed as a carcinogen by IARC, NTP, OSHA, or EU CLP. Not classified.
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Mutagenicity	Not classified. No evidence of genotoxicity in standard assays.
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SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Classified Aquatic Chronic 3 (H412) — Harmful to aquatic life with long lasting effects. LC ₅₀ (fish, 96 h): >1,000 mg/L (low acute aquatic toxicity). Chronic effects at elevated salinities affect freshwater organisms.
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Persistence / Degradability	Not applicable — inorganic salt; does not biodegrade. Persistent in aquatic environments by dissolution. Does not hydrolyse.
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Bioaccumulation	Not expected to bioaccumulate. Log Pow not applicable for ionic inorganic compounds. BCF not established.
Mobility in Soil	High mobility in soil due to high water solubility. May leach to groundwater. Elevated soil salinity can affect plant growth and soil microbial communities.
Other Adverse Effects	Large quantities released to freshwater may cause osmotic stress to aquatic organisms. Avoid uncontrolled release to the environment. Manage releases under applicable local environmental regulations.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents through an authorised waste contractor in accordance with local, regional, and national regulations. Small quantities may be permissible for dilute discharge to sewer – confirm with local authority.
Contaminated Packaging	Empty containers may retain residues; handle as hazardous until cleaned or disposed. Return to supplier or dispose via authorised contractor.
Indian Regulations	Follow applicable Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016; PCB/CPCB guidelines; and local pollution-control board requirements. Assign waste code according to actual process and applicable regulation.

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 chloride (common salt) is not classified as a dangerous good under ADR, IMDG, or IATA DGR in its standard commercial form. DG status should be verified against current edition of applicable transport regulations and carrier rules before shipment, particularly for large bulk consignments. Packaging: approved compatible container appropriate to the product.



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SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH (EC No. 1907/2006). Sodium chloride is listed on the ECHA C&L Inventory (EC 231-598-3). Classified and labelled per Section 2 in accordance with CLP Regulation (EC No. 1272/2008). Observe applicable workplace chemical and environmental requirements.
OSHA (USA)	Prepared in OSHA HCS / HazCom 2012-aligned 16-section SDS format. Sodium chloride is listed on TSCA inventory. Verify TSCA inventory status and any SNURs before US import or distribution.
India	Observe applicable Indian MSIHC Rules 1989 (as amended), Factories Act 1948, Hazardous Waste Rules 2016, Water (Prevention and Control of Pollution) Act, and relevant CPCB / SPCB requirements. BIS standards may apply for food-grade salt.
Other Jurisdictions	Australia (AICS): check inventory status before export or import. Canada (WHMIS 2015/HPR): classify and label per Section 2; Canadian sale may require bilingual SDS/label and ingredient disclosure. China (GB Standards): use applicable GB/T SDS and classification requirements where marketed. GCC / Middle East: observe applicable GHS-aligned local requirements. Final market placement requires confirmation of inventory status, local 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.



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- H412 — Harmful to aquatic life with long lasting effects.
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