



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)

Sodium Gluconate *SDS*

REV 3.1

26 SEPTEMBER 2026

GHS REV.11 (2025)

CAS 527-07-1 EC 208-407-7 SIGNAL WORD **NONE**

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

Product Name	Sodium Gluconate
Product Type	Industrial chemical — sodium salt of gluconic acid
Chemical Family	Aldonic acid salt / sugar acid carboxylate
Synonyms	Sodium D-gluconate; gluconic acid sodium salt; E576
Molecular Formula	C ₆ H ₁₁ NaO ₇
CAS No.	527-07-1
EC No.	208-407-7
Intended Use	Industrial / professional use: concrete set retarder and water-reducing admixture, chelating agent in alkaline cleaning, metal surface treatment, textile auxiliary, water-treatment sequestrant.
Restrictions on Use	Industrial / professional use only. This sheet covers Technical Grade material. Confirm suitability for the 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-gluconate
SDS Revision	September 2026
SDS Version	3.1

SECTION 2 HAZARD IDENTIFICATION

GHS/CLP Classification: Not classified as hazardous under Regulation (EC) No 1272/2008 (CLP) or the UN GHS criteria on the basis of reviewed source data.



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Signal Word	NONE
GHS Pictograms	None required

HAZARD STATEMENTS

- None. The substance does not meet the criteria for classification in any GHS hazard class.

PRECAUTIONARY – GENERAL HANDLING

- P260 – Do not breathe dust.
- P264 – Wash hands thoroughly after handling.
- P280 – Wear protective gloves and eye protection where dust is generated.
- P501 – Dispose of contents / container in accordance with local regulations.

OTHER HAZARDS

- Fine powder may form a nuisance or combustible dust cloud in confined spaces – control dust and ignition sources per local dust-explosion regulations.
- Spilled material becomes slippery when wet.
- Not a PBT or vPvB substance on the basis of reviewed data.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	CAS NO.	EC NO.	% W/W	GHS CLASSIFICATION
Sodium Gluconate	527-07-1	208-407-7	98.0 – 102.0	Not classified

Substance, not a mixture. Assay 98.0 – 102.0% per the manufacturer's specification; the balance is moisture and residual reducing substances. No hazardous impurities are present above their classification cut-offs. See Section 16 for the full text of any H-statements.

SECTION 4 FIRST AID MEASURES

Inhalation	Remove person to fresh air. Dust may cause mechanical irritation of the nose and throat. Seek medical advice if irritation persists.
Skin Contact	Wash affected skin with soap and water. Remove contaminated clothing. No irritation is expected; seek medical advice if symptoms develop.
Eye Contact	Rinse cautiously with clean water for at least 15 minutes, holding the eyelids open. Remove contact lenses if present and easy to do. Solid



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particles may cause mechanical irritation. Seek medical attention if irritation persists.

Ingestion	Rinse mouth with water. Do not induce vomiting. Sodium gluconate is of very low acute oral toxicity and is permitted as a food additive, but seek medical advice if a large quantity of technical-grade material is swallowed.
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Note to Physician	Treat symptomatically. No specific antidote known. No delayed effects expected.
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SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media	Water spray, dry powder, CO ₂ , alcohol-resistant foam. Use media appropriate to the surrounding fire.
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Unsuitable Media	Do not use a direct high-pressure water jet where it may raise a dust cloud or spread the material.
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Specific Hazards	Combustible organic solid, not readily ignitable in bulk. Airborne dust may form an explosible atmosphere. Thermal decomposition produces carbon oxides (CO, CO ₂) and sodium oxide residues.
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Protective Equipment	Wear full protective clothing and self-contained breathing apparatus (SCBA) not reliant on the surrounding atmosphere.
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Special Procedures	Avoid raising dust with fire-fighting streams. Cool exposed containers with water spray. Prevent contaminated run-off from entering drains and watercourses.
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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions	Isolate the area and keep unnecessary personnel away. Wear PPE as described in Section 8. Avoid raising dust. Ensure adequate ventilation. Beware of slipping hazard where the spill is wet.
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Environmental Precautions	Prevent entry into drains, sewers, soil and watercourses. The substance is readily biodegradable but a large release will exert an oxygen demand on receiving water.
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Containment / Clean-up	Sweep or vacuum up carefully to avoid dust generation; collect into labelled, closed, compatible containers for reuse or disposal. Flush residues with plenty of water where local discharge consent allows.
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Reference to Sections	See Section 8 for PPE; Section 13 for disposal; Section 15 for regulatory information.
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SECTION 7 HANDLING AND STORAGE

Handling Precautions	Use local exhaust ventilation where dust is generated. Avoid inhalation of dust and contact with the eyes. Ground and bond equipment where large volumes of powder are conveyed. Keep bags closed when not in use.
Hygiene	Wash hands after handling. Do not eat, drink or smoke in the handling area. Remove contaminated clothing before reuse.
Storage Conditions	Store in the original, closed bags in a cool, dry, well-ventilated area, off the floor and away from moisture and direct sunlight. The product is hygroscopic and will cake if exposed to humidity.
Storage Temperature	Ambient (typically 15 – 30 °C).
Incompatible Materials	Strong oxidising agents. Strong acids (liberate gluconic acid). Avoid prolonged contact with aluminium in wet alkaline conditions.
Segregation	Segregate from strong oxidisers and strong acids. No segregation from foodstuffs is required for food-grade material; keep technical grade separate from food and feed.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Limit	No substance-specific OEL established by OSHA, NIOSH, ACGIH or India CPCB/MSIHC for sodium gluconate (CAS 527-07-1) at time of issue. Control as a nuisance / particulate not otherwise regulated: ACGIH TLV for inhalable particulate 10 mg/m ³ , respirable 3 mg/m ³ , as a guide. Verify current local limits.
Engineering Controls	Provide local exhaust ventilation at bag-tipping, conveying and weighing points. Ensure general workplace ventilation. Provide eyewash facilities where handling occurs.
Respiratory Protection	Where dust cannot be adequately controlled by engineering means, use a NIOSH/EN-approved P95 / FFP2 (or higher) particulate respirator.
Hand / Eye / Skin	Gloves: general-purpose nitrile or cotton work gloves are sufficient. Eyes: safety glasses with side shields, or goggles where significant dust is generated (EN 166 / ANSI Z87.1). Body: standard work clothing and safety footwear.



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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to off-white crystalline powder or granules
Odour	Odourless
Odour Threshold	Not applicable (odourless solid)
pH	6.2 – 7.8 (aqueous solution) per the manufacturer's specification
Melting / Freezing Point	Decomposes on heating (approx. 200 – 210 °C); no sharp melting point
Boiling Point / Range	Not applicable — decomposes before boiling
Flash Point	Not applicable — non-flammable solid; no flash point
Auto-ignition Temperature	Not determined; no self-ignition under normal storage conditions
Flammability Limits	Not applicable (solid). Combustible dust hazard possible — assess per local dust-explosion regulations
Vapour Pressure	Negligible at ambient temperature; essentially non-volatile
Vapour Density (air = 1)	Not applicable (solid)
Relative Density	Approx. 1.7 g/cm ³ (true density); bulk density typically 0.7 – 1.0 g/cm ³ depending on granulation
Solubility in Water	Freely soluble — approx. 590 g/L at 25 °C. Sparingly soluble in ethanol; insoluble in ether
Log Pow (Partition Coeff.)	Strongly negative (highly hydrophilic ionic salt); bioaccumulation not expected
Evaporation Rate	Not applicable (solid)
Viscosity	Not applicable (solid)
VOC Content	Nil
Loss on Drying	0.3% max per the manufacturer's specification

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability	Stable under the recommended storage and handling conditions. Hygroscopic — protect from moisture.
Conditions to Avoid	Heat above approximately 200 °C, humidity, contamination and incompatible materials.
Incompatible Materials	Strong oxidising agents. Strong acids. Aluminium under wet alkaline conditions.
Hazardous Decomposition	Thermal decomposition produces carbon oxides (CO, CO ₂) and sodium-containing residues.



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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) > 5,000 mg/kg bw (published data) — practically non-toxic by this route. Sodium gluconate is permitted as a food additive (E576) in several jurisdictions.
Acute Dermal Toxicity	LD ₅₀ (rabbit, dermal) > 2,000 mg/kg bw; not classified for acute dermal toxicity.
Acute Inhalation Toxicity	No substance-specific LC ₅₀ identified in reviewed sources. Dust may cause mechanical irritation of the upper airways. Not classified.
Skin Irritation	Not irritating on the basis of available data.
Eye Irritation	Not irritating on the basis of available data; solid particles may cause transient mechanical irritation.
Sensitisation	Not a skin or respiratory sensitiser on the basis of available data.
Carcinogenicity	Not classified. Not listed by IARC, NTP, ACGIH or OSHA at time of issue.
Mutagenicity	Negative in the reviewed genotoxicity data; not classified.
Reproductive Toxicity	No evidence of reproductive or developmental toxicity in reviewed data; not classified.
STOT (Single / Repeated)	Not classified for specific target organ toxicity by either route.

SECTION 12 ECOLOGICAL INFORMATION

Aquatic Toxicity	Low acute aquatic toxicity — reported LC ₅₀ / EC ₅₀ values for fish, daphnia and algae exceed 100 mg/L. Not classified for aquatic hazard.
Persistence / Degradability	Readily biodegradable (> 90% in 28 days under OECD 301 conditions in published data). Exerts a biochemical oxygen demand on receiving water in large releases.
Bioaccumulation	Not expected — highly water-soluble ionic salt with a strongly negative partition coefficient.
Mobility in Soil	Highly mobile in soil and groundwater owing to high water solubility; degrades rapidly.
Other Adverse Effects	Sodium gluconate is a strong chelating agent and can remobilise metals from sediment or soil. Avoid uncontrolled release to the



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environment.

SECTION 13 DISPOSAL CONSIDERATIONS

Waste from Product	Dispose of contents and residues through an authorised waste contractor in accordance with local regulations. Small quantities of uncontaminated material may be biologically treated where local discharge consent permits.
Contaminated Packaging	Empty bags may retain residues. Handle as potentially contaminated until cleaned, then dispose of or recycle via an approved route under local packaging waste regulations.
Indian Regulations	Follow applicable provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, the Water (Prevention & Control of Pollution) Act, and 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	N/A	N/A	N/A
Marine Pollutant	No	No	—

Sodium gluconate (CAS 527-07-1) is not listed as a dangerous good under ADR, IMDG or IATA-DGR at time of issue. Ship in sound, closed, moisture-resistant packaging. Verify current carrier and customs requirements before each shipment.

SECTION 15 REGULATORY INFORMATION

EU / REACH / CLP	Subject to REACH registration for volumes ≥ 1 tonne/year. Not classified under CLP Regulation (EC) No 1272/2008 — see Section 2. Consult the ECHA C&L Inventory for CAS 527-07-1.
Food Additive Status	Sodium gluconate is listed as food additive E576 in the EU and is affirmed GRAS in the USA. THIS SHEET COVERS TECHNICAL GRADE MATERIAL, which is not supplied for food use — request food-grade material and its own documentation if the application requires it.



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OSHA (USA)	Covered under the OSHA Hazard Communication Standard (HCS / HazCom 2012, 29 CFR 1910.1200). This SDS is prepared in the required 16–section format.
India	Comply with applicable provisions of the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989 (as amended), the Factories Act, the Environmental Protection Act, the Water and Air Pollution Control Acts, and CPCB guidelines.
Other Jurisdictions	Canada WHMIS 2015 / HPR: not classified; bilingual SDS/label required for Canadian sale. USA TSCA: verify inventory status before US import or distribution. Australia AICS and China IECSC: confirm inventory listing before export or import. Final market placement requires confirmation of local OELs, transport classification, waste code and inventory status.

SECTION 16 OTHER INFORMATION

Prepared By	Supreme Petro Chemicals — Technical Department
Data Sources	Manufacturer's Certificate of Analysis (Shandong Fuyang Bio-Tech, batch FY20260708); ECHA C&L Inventory; published toxicological and ecotoxicological literature for CAS 527–07–1.
SDS Standard	UN GHS Rev.11 (2025); OSHA HCS/HazCom; EU CLP/REACH Annex II; Canada WHMIS/HPR — 16–section format
Revision Date	26 September 2026
Version	3.1 (first issue for this product)
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 with all applicable laws and regulations. Supreme Petro Chemicals shall not be liable for any loss, injury, or damage resulting from reliance on this information.

FULL TEXT OF H-STATEMENTS

- None — the substance is not classified in any GHS hazard class.