Chemical Safety Data Sheet

SECTION 1 IDENTIFICATION

Product Name: Industrial Salt
Chemical Name: Sodium Chloride
Synonyms: Rock Salt; Sea Salt; Table Salt; NaCl
CAS No.: 7647-14-5
EC No.: 231-598-3
Molecular Formula: NaCl
Molecular Weight: 58.44 g/mol
Recommended Use: Industrial raw material used in chemical manufacturing (chlor-alkali industry), water treatment (softening, regeneration), textile dyeing, road de-icing, dust suppression, construction antifreeze, agriculture, aquaculture, and food processing.
Restrictions on Use: /
Supplier / Manufacturer: Shandong Guowei Chemical Industry Co., Ltd.
Address: Binhai Economic Development Zone, Weifang, Shandong, China
Main Loading Ports: Qingdao Port; Tianjin Port
Trade Terms: FOB, CIF, CFR

SECTION 2 HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Not a hazardous substance or mixture. Industrial salt (sodium chloride) is classified as ordinary non-hazardous industrial chemicals and requires no special transport permits.

GHS Label Elements, Including Precautionary Statements

Not a hazardous substance or mixture. No signal word, hazard pictograms or hazard statements are required.

Physical and Chemical Hazards

Based on currently available information, no physical or chemical hazards have been identified.

Health Hazards

Based on currently available information, no significant health hazards at normal handling conditions. Dust may cause mild irritation to eyes and respiratory tract.

Environmental Hazards

Based on currently available information, not classified as an environmental hazard. High concentrations may affect soil salinity and aquatic ecosystems.

Emergency Overview

White crystalline solid, odourless. If dust is inhaled, move to fresh air. If contact with eyes occurs, flush with large amounts of water. Wash skin with soap and water. Seek medical attention if discomfort persists.

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Sodium Chloride (Industrial Salt)
CAS No.	7647-14-5
EC No.	231-598-3
Molecular Formula	NaCl

Grade	**Purity (NaCl)**
Refined Industrial Salt	≥99.1%
Solar Sea Salt	92%–96%
Oven-Dried Salt	≥98.5% – 99.5% (customisable; ≥99.3% available for Japan export)

SECTION 4 FIRST AID MEASURES

Description of Necessary First Aid Measures

If inhaled: Move to fresh air immediately. If discomfort persists, seek medical attention.

In case of skin contact: Wash with soap and large amounts of water. Seek medical attention if discomfort persists.

In case of eye contact: Flush thoroughly with large amounts of clean water for at least 15 minutes. Seek medical attention if irritation persists.

If swallowed: Rinse mouth with water. Seek medical attention if large amounts are ingested.

Rescuer Protection

Use appropriate protective equipment. Avoid generating or inhaling dust.

Most Important Symptoms and Effects

Dust may cause mild irritation to eyes, skin, and upper respiratory tract. No serious acute health effects expected under normal handling conditions.

Indication of Immediate Medical Attention Needed

Treat symptomatically. Medical attention is required only if significant exposure or persistent

symptoms occur.

SECTION 5 FIREFIGHTING MEASURES

Suitable Extinguishing Media

Product is non-flammable. Select extinguishing media appropriate to the surrounding fire. Water, dry powder, foam, or carbon dioxide are all acceptable.

Special Hazards Arising from the Chemical

No flammable or explosive properties. Sodium chloride itself does not burn or support combustion.

Special Protective Actions for Fire-Fighters

Wear appropriate protective equipment. In the event of a fire in the storage area, move containers away from the fire if safely possible. Cool exposed containers with water spray.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

Avoid generating dust. Wear appropriate dust respirator, safety goggles, and protective gloves during clean-up. Isolate the spill area.

Environmental Precautions

Prevent large quantities of spilled material from entering drains, surface water, or groundwater, as high salt concentrations may affect aquatic environments.

Methods and Materials for Containment and Cleaning Up

Minor spills: Sweep or shovel up and place into suitable, sealed containers for disposal or reuse.

Major spills: Contain the spill. Collect material mechanically into containers. Avoid flushing large quantities to drains.

SECTION 7 HANDLING AND STORAGE

Precautions for Safe Handling

Operate in a manner that minimises dust generation. Wear a self-priming filter-type dust respirator and safety goggles where dust exposure is likely. Handle with care to prevent damage to packaging. Avoid prolonged skin contact with wet salt.

Conditions for Safe Storage, Including Any Incompatibilities

Product	Storage Conditions

Refined Industrial Salt	Seal and store in a dry, well-ventilated warehouse. Keep away from moisture.
Solar Sea Salt	Prevent excessive moisture absorption and caking.
Oven-Dried Salt	Keep sealed to maintain crystal form. Protect from humidity.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters

Index	Value
Occupational Exposure Limit	No national regulatory exposure limits established for sodium chloride.
Monitoring Method	Gravimetric dust measurement.

Appropriate Engineering Controls

Provide adequate ventilation in handling areas. Ensure eyewash stations are accessible near the workplace.

Personal Protective Equipment

Respiratory protection: Filter-type dust respirator when dust exposure is likely.

Eye/face protection: Safety goggles or face shield to prevent dust contact.

Skin and body protection: Wear appropriate protective working clothing.

Hand protection: Wear protective gloves, particularly when handling wet salt.

Other protection: No smoking, eating, or drinking in the workplace. Wash hands before meals. Shower and change clothing after work.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline solid (refined salt: fine, uniform particles; solar sea salt: coarse mixed particles; oven-dried salt: white regular crystals)
Odour	Odourless
Odour Threshold	/
pH Value (saturated solution)	~7 (neutral)
Melting Point (°C)	801

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Boiling Point (°C)	1413
Flash Point (°C)	Not applicable (non-flammable)
Flammability	Non-flammable
Upper/Lower Flammability Limits (% V/V)	/
Vapour Pressure (kPa)	/
Vapour Density (Air = 1)	/
Relative Density (Water = 1)	2.165
Water Solubility	Soluble in water (~360 g/L at 20°C). Slightly soluble in ethanol. Solubility is not significantly temperature-dependent.
Partition Coefficient (n-octanol/water)	/
Autoignition Temperature (°C)	Not applicable
Decomposition Temperature (°C)	/
Evaporation Rate	/
Molecular Formula	NaCl
Molecular Weight (g/mol)	58.44
Minimum Purity	≥92% (all grades)

SECTION 10 STABILITY AND REACTIVITY

Reactivity

No significant reactivity hazards under normal conditions.

Chemical Stability

Stable under normal conditions of handling and storage. Highly hygroscopic; prolonged exposure to humid air may cause caking.

Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

Conditions to Avoid

Excessive moisture and humidity (causes caking). Electrolysis conditions may release chlorine gas and sodium metal.

Incompatible Materials

Strong acids (may release hydrogen chloride gas). Strong oxidising agents. Reactive metals under aqueous conditions.

Hazardous Decomposition Products

None under normal storage and use conditions. Electrolysis may produce sodium and chlorine gas.

SECTION 11 TOXICOLOGICAL INFORMATION

Acute Health Effects

Parameter	Value / Description
Oral LD50	3,000 mg/kg (rat, oral)
Dermal LD50	/ (not classified as harmful by skin contact)
Inhalation	Dust may cause mild irritation to the upper respiratory tract.
Skin irritation	Mild irritant. Prolonged contact with wet salt may cause skin dryness or irritation.
Eye irritation	Dust or concentrated solution may cause mild eye irritation.

Chronic Health Effects

Respiratory / Skin Sensitisation	/
Germ Cell Mutagenicity	Not classified.
Carcinogenicity	Not listed as a carcinogen by IARC, NTP, or OSHA.
Reproductive Toxicity	/
STOT — Single Exposure	/
STOT — Repeated	/

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Exposure	
Aspiration Hazard	/

SECTION 12 ECOLOGICAL INFORMATION

Ecotoxicity	Not classified as environmentally hazardous. High concentrations may elevate salinity in aquatic environments, adversely affecting freshwater organisms and plants.
Persistence and Degradability	Inorganic compound; not subject to biodegradation.
Bioaccumulative Potential	Not expected to bioaccumulate.
Mobility in Soil	Highly mobile in soil due to water solubility. May migrate to groundwater.
Other Adverse Effects	Large spillages may affect local soil salinity and aquatic ecosystems.

SECTION 13 DISPOSAL CONSIDERATIONS

Disposal Methods

Recover and recycle where possible. Sodium chloride is not classified as hazardous waste under normal circumstances. Dispose of in accordance with national and local regulations. May be neutralised with water and discharged to the wastewater treatment system in controlled quantities.

Contaminated Packaging

Empty packaging may be reused or recycled. Dispose of contaminated packaging in accordance with national and local regulations.

Special Precautions for Disposal

Consult applicable national and local regulations before disposal. Do not dispose of large quantities directly to waterways or soil.

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SECTION 14 TRANSPORT INFORMATION

UN Number	Not regulated as dangerous goods
UN Proper Shipping Name	Not regulated as dangerous goods (non-hazardous commodity)

Transport Hazard Class(es)	/
Packaging Group	/
Environmental Hazards	/
Packaging Methods	Refined Salt: 25 kg / 50 kg moisture-proof woven bags. Solar Sea Salt: 25 kg woven bags, 1-ton jumbo bags, or bulk. Oven-Dried Salt: standard export packaging customised for Japanese market. Custom packaging available on request.
Main Loading Ports	Qingdao Port; Tianjin Port (and other major Chinese ports)
Transport Modes	Sea freight (standard general cargo vessels); Railway freight (Central Asia and surrounding regions); Sea-rail intermodal transport (one-stop customs clearance)
Special Precautions for User	Packaging must be intact before shipment. Protect from rain, moisture, and excessive humidity during transit to prevent caking. All products comply with international general cargo transport regulations and require no special transport permits or dangerous goods documentation.

SECTION 15 REGULATORY INFORMATION

Regulations

Sodium Chloride (CAS: 7647-14-5) is not listed as a hazardous chemical under the China Catalogue of Hazardous Chemicals.

This safety data sheet is prepared in accordance with GB/T 16483-2008 and GB/T 17519-2013. All products comply with international general cargo transportation rules.

Applicable regulations include: Dangerous Goods Transport Administration Regulations (China) — not applicable (non-hazardous); United Nations Regulations on the Transport of Dangerous Goods (UN RTDG) — not applicable; International Maritime Dangerous Goods Code (IMDG) — not applicable.

Certifications and documents available: Material Safety Data Sheet (MSDS); Batch Certificate of Analysis (COA); Industrial product compliance report.

SECTION 16 OTHER INFORMATION

References

GB/T 16483-2008; GB/T 17519-2013; UN RTDG; GHS (Globally Harmonised System of Classification and Labelling of Chemicals).

Form Date

June 2026

Abbreviations

Abbreviation	Full Name
LD50	Lethal Dose 50%
STOT	Specific Target Organ Toxicity
GHS	Globally Harmonised System of Classification and Labelling of Chemicals
SDS / MSDS	Safety Data Sheet / Material Safety Data Sheet
COA	Certificate of Analysis
IMDG	International Maritime Dangerous Goods Code
PC-TWA	Permissible Concentration — Time-Weighted Average
FOB / CIF / CFR	Standard international trade terms (Incoterms)
FCL / LCL	Full Container Load / Less than Container Load
MOQ	Minimum Order Quantity

Disclaimer

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