

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Chloride, 99.5% Pure

Synonyms: Sodium chloride; salt; large granules (rock, solar or evaporated)

CAS Number: 7647-14-5

Grade/Purity: 99.5% Pure (minimum)

Federal Specification: A-A-694E, Type II, Form 2

National Stock Number (NSN): 6810-01-528-4690

CAGE Code: 1LT50

Product Type: Inorganic Salt (Solid)

Product Use: Industrial, manufacturing, or per applicable government contract specification

Manufacturer/Supplier: Alliance Chemical, 204 South Edmond St, Taylor, Texas 76574

Information: 512-365-6838 | www.alliancechemical.com

Emergency: CHEMTEL – 800-255-3924 (24 Hours/Day, 7 Days/Week)

2. HAZARDS IDENTIFICATION

Signal Word: Not Classified

GHS Pictograms: None assigned

Hazard Statement	Not classified as hazardous under OSHA HCS / GHS.
-------------------------	---

Precautionary Statements:

P264	Wash hands after handling.
P501	Dispose of contents and container in accordance with all applicable regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Sodium Chloride	99.5	100	7647-14-5	231-598-3	NaCl	58.44 g/mol

4. FIRST-AID MEASURES

Eyes	Rinse with water for several minutes. Get medical attention if irritation persists (dust may be mildly abrasive).
Skin	No hazard expected. Wash with water.
Inhalation	Move to fresh air if dust is inhaled.
Ingestion	Low toxicity. Rinse mouth; get medical attention if a large amount is swallowed.

5. FIRE-FIGHTING MEASURES

Suitable Media	Use water spray, alcohol-resistant foam, dry chemical, or CO ₂ . Use measures appropriate to local circumstances.
Unsuitable Media	Do not use a solid water stream as it may scatter and spread fire.
Protective Equipment	Wear self-contained breathing apparatus and full protective clothing.

Combustion Products	Non-combustible. See Section 10.
---------------------	----------------------------------

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental	Prevent leakage or spillage from entering drains, sewers, or waterways.
Containment & Cleanup	Absorb with inert material. Collect in appropriate waste container. Dispose per applicable regulations.

7. HANDLING AND STORAGE

Safe Handling	Use with adequate ventilation. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling. Keep container closed when not in use.
Safe Storage	Store in a cool, dry, well-ventilated area. Keep away from: strong oxidizers; strong acids (may liberate hydrogen chloride); reactive metals (lithium); bromine trifluoride. Keep containers tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.

Occupational Exposure Limits:

AGENCY	EXPOSURE LIMIT
OSHA PEL	None established
ACGIH TLV	None established
NIOSH REL	None established
IDLH	Not established

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White crystalline solid or granules (rock, solar, or evaporated)
Odor	Odorless
pH	~7 (neutral, aqueous solution)
Melting Point	801 C
Boiling Point	1413 C
Flash Point	Not applicable (non-combustible)
Vapor Pressure	Negligible
Specific Gravity	2.17
Solubility	Soluble in water (~360 g/L at 20 C)
Molecular Formula	NaCl

Molecular Weight	58.44 g/mol
-------------------------	-------------

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal conditions. Contact with strong acids can liberate hydrogen chloride; incompatible with strong oxidizers and some reactive metals.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong oxidizers; strong acids (may liberate hydrogen chloride); reactive metals (lithium); bromine trifluoride.
Decomposition Products	Stable; does not decompose under normal conditions. At very high temperature or with strong acids may release hydrogen chloride / chlorine.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See below for route-specific data.

ROUTE	VALUE
LD50 Oral	3000 mg/kg (rat, oral)
LD50 Dermal	> 10000 mg/kg
LC50 Inhalation	Not established (nuisance dust)

IARC	Not listed as carcinogen.
NTP	Not listed as carcinogen.
OSHA	Not listed as carcinogen.

12. ECOLOGICAL INFORMATION

Ecotoxicity	Fish LC50: ~5840 mg/L (fathead minnow, 96 h) – low toxicity; Daphnia EC50: ~1000 mg/L (48 h) [PubChem]
Persistence	Not applicable (inorganic)
Bioaccumulation	BCF: Low; not bioaccumulative
Mobility in Soil	Log Kow: Not applicable (ionic salt)

13. DISPOSAL CONSIDERATIONS

Dispose of contents/container in accordance with applicable federal, state, and local regulations. Do not dispose into drains or waterways.

14. TRANSPORT INFORMATION

US DOT	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
IATA/ICAO	Not regulated as dangerous goods.
Marine Pollutant	No

15. REGULATORY INFORMATION

Federal	TSCA: listed. SARA 313 (TRI): not listed. CERCLA: no RQ. California Proposition 65: not listed. State Right-to-Know: not listed. US DOT: not regulated.
SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

Revision Date: 08/10/2026

Disclaimer: The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of publication. It relates only to the specific product identified and does not relate to its use in combination with any other materials. Alliance Chemical makes no warranty, express or implied, including warranties of merchantability or fitness for a particular purpose. Alliance Chemical does not assume liability for loss, injury, damage, or expense arising from the handling, storage, use, or disposal of this product.