

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Hypochlorite 8.25%

Synonyms: sodium hypochlorite

CAS Number: 7681-52-9

Grade/Purity: Technical

Product Type: Salts

Product Use: Industrial, Manufacturing or Laboratory use

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: Danger

GHS Pictograms:



Hazard Statements:

H314	Causes severe skin burns and eye damage [Danger Skin corrosion/irritation]
H318	Causes serious eye damage [Danger Serious eye damage/eye irritation]
H400	Very toxic to aquatic life [Warning Hazardous to the aquatic environment, acute hazard]
H410	Very toxic to aquatic life with long lasting effects [Warning Hazardous to the aquatic environment, long-term hazard]

Precautionary Statements:

P260,	P264, P264+P265, P273, P280, P301+P330+P331, P302+P361+P354, P304+P340, P305+P354+P338, P316, P317, P321, P363, P391, P405, and P501
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3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Sodium Hypochlorite	8.25	8.25	7681-52-9	231-668-3	NaClO	74.44 g/mol
Water	91.75	91.75	7732-18-5	231-791-2	H ₂ O	18.02 g/mol

4. FIRST-AID MEASURES

Eyes	EYES: Flush with plenty of water for 15 minutes.
Skin	SKIN: Wash contaminated area with soap and water.
Inhalation	INHALATION: Sips of milk or other demulcent.
Ingestion	-- DO NOT perform mouth-to-mouth resuscitation; the victim may have ingested or inhaled the substance.

5. FIRE-FIGHTING MEASURES

Suitable Media	Dry chemical, CO2, water spray. Use water spray to cool containers.
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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	May include carbon oxides and other toxic fumes. 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. Use corrosion-resistant containers. Keep away from incompatible materials (see Section 10). 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:

No established occupational exposure limits.

Eyes	Wear chemical safety goggles or face shield.
Skin	Wear chemical-resistant gloves and protective clothing.
Inhalation	For mist or aerosol applications (e.g., spray, atomization, pressure washing), use a NIOSH-approved half-face air-purifying respirator with combination acid gas / P100 cartridges. For dust exposure, an N95 or P100 particulate filter is acceptable. Ensure local exhaust ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Yellow-green liquid with strong chlorine odor
Odor	Characteristic
Median Particle Size	Not Applicable
Particle Size Distribution	Not Applicable
Particle Shape	Not Applicable
Surface Area	Not Applicable
Dustiness	Not Applicable
Hygroscopicity	Not Applicable
pH	Not Available
Melting Point	-6°C
Boiling Point	101°C (dilute)
Flash Point	Not Available
Vapor Pressure	Not Available
Specific Gravity	1.12
Solubility	Fully soluble in water
Molecular Formula	NaClO
Molecular Weight	74.44 g/mol

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under recommended storage conditions.
Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, sparks, open flame, and incompatible materials.
Incompatible Materials	Strong acids, strong bases, reactive metals, water (for some concentrated forms).
Decomposition Products	May produce carbon oxides and other toxic fumes when heated to decomposition.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: See Section 2 for GHS hazard classification.

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

12. ECOLOGICAL INFORMATION

Ecotoxicity	Algae ErC50: 0.036 mg/L (72 h, Green algae); Daphnia EC50: 0.141 mg/L (48 h, Daphnia magna); Fish LC50: 0.58 mg/L (96 h, Lepomis macrochirus (bluegill sunfish)); Algae NOEC (chronic): 0.005 mg/L (72 h, Green algae (NOEC))
Persistence	Not applicable (inorganic; reactive oxidizer, decomposes rapidly). Very toxic to aquatic life (algae M-factor 10).
Bioaccumulation	Not Available
Mobility in Soil	Not Available

13. DISPOSAL CONSIDERATIONS

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

14. TRANSPORT INFORMATION

US DOT	UN1791, Hypochlorite solution, 8, PG III
IMDG	UN1791, Hypochlorite solution, 8, PG III
IATA/ICAO	UN1791, Hypochlorite solution, 8, PG III
Marine Pollutant	No

15. REGULATORY INFORMATION

Regulatory listings not yet on file in this system; consult OSHA, EPA TSCA, EPCRA TRI, and California OEHHA directly.	
SARA 311/312	See Section 2 for hazard classifications.

16. OTHER INFORMATION

Revision Date: 07/01/2026

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