

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Sodium Hypochlorite 1%

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: Warning

GHS Pictograms:



Hazard Statements:

H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary Statements:

P264	Wash hands and face thoroughly after handling.
P280	Wear protective gloves, protective clothing, and eye/face protection.
P302+P352	IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P321	Specific treatment (see first-aid information on this label).
P332+P313	If skin irritation occurs: Get medical advice or attention.
P337+P313	If eye irritation persists: Get medical advice or attention.
P362	Take off contaminated clothing and wash before reuse.
P501	Dispose of contents and container in accordance with local, regional, national, and international regulations.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMPONENT	% MIN	% MAX	CAS #	EINECS# / ELINCS#	FORMULA	MOLECULAR WEIGHT
Sodium Hypochlorite	1	1	7681-52-9	231-668-3	NaClO	74.44 g/mol
Water	99	99	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.
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	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

Exposure limits sourced from NIOSH Pocket Guide and OSHA 29 CFR 1910.1000. Hazard classification from ECHA Classification and Labelling Inventory (CLP Annex VI).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Pale yellow liquid with slight chlorine odor
Odor	Characteristic
Particle Characteristics	Not Applicable
pH	Not Available
Melting Point	-6°C
Boiling Point	101°C (dilute)
Flash Point	Not Available
Vapor Pressure	Not Available
Specific Gravity	1.018
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 solutions, 8, PG III
IMDG	UN1791, Hypochlorite solutions, 8, PG III
IATA/ICAO	UN1791, Hypochlorite solutions, 8, PG III
Marine Pollutant	No

15. REGULATORY INFORMATION

TSCA Inventory	Listed.
SARA 313 (TRI)	Not listed.
California Prop 65	Not listed.
SARA 311/312	See Section 2 for hazard classifications.

Data retrieved as of — TSCA Inventory: 2026-07-30; SARA 313 (TRI): 2026-07-30; California Prop 65: 2026-07-30

16. OTHER INFORMATION

Revision Date: 07/30/2026

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