Safety Data Sheet · OSHA HCS 2024

Sodium Hypochlorite 3%

Technical · 3% w/w

Standard	Revised	Emergency
OSHA HCS 2024 · GHS Rev. 7	2026-11-19	Chemtel 1-800-255-3924 (24/7)

1 Identification

Product Identifier	Sodium Hypochlorite 3%
Grade	Technical
Concentration	3% w/w
CAS Number	7681-52-9
Chemical Formula	NaClO
Molecular Weight	74.44 g/mol
Manufacturer	Alliance Chemical 204 South Edmond Street, Taylor, TX 76574
Emergency Phone	Chemtel 1-800-255-3924 (24/7)
Recommended Use	Industrial / laboratory chemical. See Section 7.
Restrictions on Use	No restrictions identified beyond the conditions of safe use in Sections 7 and 8.

2 Hazard Identification



Corrosive



Environmental hazard

Classification

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 1

Hazardous to the aquatic environment, acute hazard, Category 1 †

Hazardous to the aquatic environment, long-term hazard, Category 2 †

† GHS environmental hazard class; not adopted under OSHA HCS (29 CFR 1910.1200).

Signal Word

Danger

Hazard Statements

H315 Causes skin irritation

H318 Causes serious eye damage

H400 Very toxic to aquatic life

H411 Toxic to aquatic life with long lasting effects

Precautionary Statements

P264 Wash hands and face thoroughly after handling.

P273 Avoid release to the environment.

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.

P310 Immediately call a POISON CENTER or doctor.

P321 Specific treatment (see first-aid information on this label).

P332+P313 If skin irritation occurs: Get medical advice or attention.

P362 Take off contaminated clothing and wash before reuse.

P391 Collect spillage.

P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

Classification, hazard (H) and precautionary (P) statements and pictograms per OSHA HCS 2024 (29 CFR 1910.1200, Appendices A–C), aligned with GHS Rev. 7.

3 Composition / Information on Ingredients

Component	CAS No.	Formula	Concentration
Sodium hypochlorite	7681-52-9	NaClO	3% (w/w)
Water	7732-18-5	H2O	Balance (w/w)

Concentrations are nominal; lot-specific values appear on the Certificate of Analysis. Components not contributing to classification are omitted.

4 First-Aid Measures

Eyes

Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek medical attention immediately.

Skin

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing. Wash with soap. Get medical attention immediately.

Inhalation

Move person to fresh air and keep comfortable for breathing. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention immediately.

Ingestion

Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

Most Important Symptoms and Effects

Eye contact causes serious eye damage: pain, redness and corneal injury, which may be permanent.

Skin contact causes irritation: redness, itching and pain; repeated contact may dry and crack the skin.

Immediate Medical Attention and Special Treatment

Immediate medical attention is required after eye contact; eye damage may continue after exposure ends.

5 Fire-Fighting Measures

Suitable Extinguishing Media

Dry chemical, CO2, water spray. Use water spray to cool containers.

Unsuitable Extinguishing Media

Do not use a solid water stream as it may scatter and spread fire.

Specific Hazards Arising from the Chemical

Fire may release corrosive and toxic gases. Containers may rupture when heated.

Protective Equipment

Wear self-contained breathing apparatus and full protective clothing.

Hazardous Combustion Products

Chlorine gas, hydrogen chloride, hypochlorous acid and oxygen. Contact with acids releases chlorine gas.

6 Accidental Release Measures

Personal Precautions	Use PPE as described in Section 8. Ensure adequate ventilation. Evacuate personnel to safe areas.
Hazard-Specific Precautions	Do not touch spilled material without protective equipment. Neutralize residue only with a method suitable for the material, then collect.
Environmental Precautions	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.
Specific Storage Precautions	Store out of direct sunlight in a cool area, in the original vented container. Keep away from acids, ammonia and organic materials. Strength declines with time and heat.

8 Exposure Controls / Personal Protection

Occupational Exposure Limits

No established occupational exposure limits.

Engineering Controls	Use adequate ventilation. Provide eyewash stations and quick-drench showers accessible to areas of use.
Eye/Face Protection	Wear chemical safety goggles or face shield.
Skin Protection	Wear chemical-resistant gloves and protective clothing.
Respiratory Protection	Use NIOSH-approved respirator if exposure limits are exceeded or irritation occurs.

9 Physical & Chemical Properties

Appearance	Pale yellow liquid with chlorine odor
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting Point / Freezing Point	No data available
Boiling Point	101°C (dilute)
Flash Point	No data available
Evaporation Rate	No data available
Flammability (solid, gas)	No data available
Upper/Lower Flammability or Explosive Limits	No data available
Vapor Pressure	No data available

Vapor Density	No data available
Relative Density	1.043 at 20/20 °C (water = 1)
Solubility	Completely miscible with water
Partition Coefficient (n-octanol/water)	No data available
Auto-ignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Particle Characteristics	Not applicable
Color	Clear/Greenish Yellow
Density	1.0408 g/cm^3 at 20 °C

Values shown reflect product-specific canonical data. Lot-specific ranges may vary; see the Certificate of Analysis for the shipped lot.

10 Stability and Reactivity

Reactivity	Not reactive under normal conditions of use and storage.
Chemical Stability	Stable under recommended storage conditions.
Possibility of Hazardous Reactions	None under normal processing conditions.
Conditions to Avoid	Heat, direct sunlight and ultraviolet light (speed decomposition and strength loss), freezing, and contact with incompatible materials.
Incompatible Materials	Acids (release toxic chlorine gas); ammonia and ammonium compounds (form chloramines); reducing agents; hydrogen peroxide; organic and combustible materials; metals such as copper, nickel, cobalt and iron (speed decomposition).
Hazardous Decomposition Products	Chlorine gas, hydrogen chloride, hypochlorous acid and oxygen. Contact with acids releases chlorine gas.

11 Toxicological Information

See Section 2 for GHS hazard classification.

Likely Routes of Exposure	Inhalation, skin contact, eye contact, ingestion.
Symptoms	Eye contact causes serious eye damage: pain, redness and corneal injury, which may be permanent. Skin contact causes irritation: redness, itching and pain; repeated contact may dry and crack the skin.
Delayed and Chronic Effects	Repeated skin contact may cause dermatitis (dry, cracked skin).
Numerical Measures of Toxicity	No data available

Carcinogen Classification

Agency	Status
IARC	Group 3 — not classifiable as to its carcinogenicity to humans (Sodium hypochlorite; IARC agent: Hypochlorite salts, Vol. 52).
NTP	Not listed as carcinogen.

Agency	Status
OSHA	Not listed as carcinogen.

12 Ecological Information

Aquatic Hazard	H400 Very toxic to aquatic life H411 Toxic to aquatic life with long lasting effects
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 & Degradability	Not applicable (inorganic; reactive oxidizer, decomposes rapidly). Very toxic to aquatic life (algae M-factor 10).
Bioaccumulative Potential	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.

If discarded, this material may be a corrosive hazardous waste (EPA RCRA D002, 40 CFR 261.22): aqueous with pH ≤ 2 or ≥ 12.5, or a liquid that corrodes steel at more than 6.35 mm per year. The waste generator must make the final hazardous-waste determination.

14 Transport Information

US DOT (49 CFR)

UN Number	UN1791
Proper Shipping Name	Hypochlorite solutions
Hazard Class	8
Packing Group	III
Environmental Hazards	Meets GHS aquatic-hazard criteria; may be a marine pollutant under the IMDG Code (vessel transport).

IMDG / IATA classifications may differ from US DOT. Verify current regulations before international shipment.

15 Regulatory Information

Inventory / List	Status
California Proposition 65	Not listed
US EPA TSCA Active Inventory	Listed
EPCRA SARA 313 (TRI)	Not listed

SARA 311/312 hazard categories correspond to the GHS classification in Section 2. Data retrieved as of: California Proposition 65 2026-11-02; US EPA TSCA Active Inventory 2026-11-02; EPCRA SARA 313 (TRI) 2026-11-02.

16 Other Information

Revision Date	2026-11-19
Format	16-section format per OSHA HCS 2024 (29 CFR 1910.1200, Appendix D), aligned with GHS Rev. 7.

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