

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sodium Hypochlorite 2%

**Synonyms:** sodium hypochlorite

**CAS Number:** 7681-52-9

**Grade/Purity:** Technical Grade

**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](http://www.alliancechemical.com)

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

### 2. HAZARDS IDENTIFICATION

**Signal Word:** Danger

**GHS Pictograms:**



**Hazard Statements:**

|      |                                                 |
|------|-------------------------------------------------|
| H315 | Causes skin irritation                          |
| H318 | Causes serious eye damage                       |
| 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.                   |

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

| COMPONENT           | % MIN | % MAX | CAS #     | EINECS# / ELINCS# | FORMULA          | MOLECULAR WEIGHT |
|---------------------|-------|-------|-----------|-------------------|------------------|------------------|
| Sodium Hypochlorite | 2     | 2     | 7681-52-9 | 231-668-3         | NaClO            | 74.44 g/mol      |
| Water               | 98    | 98    | 7732-18-5 | 231-791-2         | H <sub>2</sub> O | 18.02 g/mol      |

#### 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.                             |

#### 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 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                         |

|                          |                        |
|--------------------------|------------------------|
| <b>Specific Gravity</b>  | 1.032                  |
| <b>Solubility</b>        | Fully soluble in water |
| <b>Molecular Formula</b> | NaClO                  |
| <b>Molecular Weight</b>  | 74.44 g/mol            |

## 10. STABILITY AND REACTIVITY

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

## 11. TOXICOLOGICAL INFORMATION

**Acute Toxicity:** See Section 2 for GHS hazard classification.

|             |                           |
|-------------|---------------------------|
| <b>IARC</b> | Not listed as carcinogen. |
| <b>NTP</b>  | Not listed as carcinogen. |
| <b>OSHA</b> | Not listed as carcinogen. |

## 12. ECOLOGICAL INFORMATION

|                         |                                                                                                                                                                                                                               |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>      | 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)) |
| <b>Persistence</b>      | Not applicable (inorganic; reactive oxidizer, decomposes rapidly). Very toxic to aquatic life (algae M-factor 10).                                                                                                            |
| <b>Bioaccumulation</b>  | Not Available                                                                                                                                                                                                                 |
| <b>Mobility in Soil</b> | 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

|                         |                                           |
|-------------------------|-------------------------------------------|
| <b>US DOT</b>           | UN1791, Hypochlorite solutions, 8, PG III |
| <b>IMDG</b>             | UN1791, Hypochlorite solutions, 8, PG III |
| <b>IATA/ICAO</b>        | UN1791, Hypochlorite solutions, 8, PG III |
| <b>Marine Pollutant</b> | No                                        |

## 15. REGULATORY INFORMATION

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

Data retrieved as of — TSCA Inventory: 2026-08-02; SARA 313 (TRI): 2026-08-02; California Prop 65: 2026-08-02

## 16. OTHER INFORMATION

**Revision Date:** 08/25/2026

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