

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Sodium Hypochlorite 5.25%

**Synonyms:** sodium hypochlorite

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

**Grade/Purity:** Water Treatment 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:**

|        |                                                      |
|--------|------------------------------------------------------|
| EUH031 | Contact with acids liberates toxic gas               |
| H290   | May be corrosive to metals                           |
| H314   | Causes severe skin burns and eye damage              |
| H400   | Very toxic to aquatic life                           |
| H410   | Very toxic to aquatic life with long lasting effects |

**Precautionary Statements:**

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P260           | Do not breathe dust, fume, gas, mist, vapours or spray.                                                                          |
| P264           | Wash hands and face thoroughly after handling.                                                                                   |
| P273           | Avoid release to the environment.                                                                                                |
| P280           | Wear protective gloves, protective clothing, and eye/face protection.                                                            |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                                                                               |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.                           |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.                                                       |
| 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.                                                                                      |
| P313           | Get medical advice or attention.                                                                                                 |
| P321           | Specific treatment (see first-aid information on this label).                                                                    |
| P363           | Wash contaminated clothing before reuse.                                                                                         |
| P391           | Collect spillage.                                                                                                                |
| P405           | Store locked up.                                                                                                                 |
| 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 | 5.25  | 5.25  | 7681-52-9 | 231-668-3         | ClNaO            | 74.44 g/mol      |
| Water               | 94.75 | 94.75 | 7732-18-5 | 231-791-2         | H <sub>2</sub> 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, CO <sub>2</sub> , 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 | 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. |

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-green liquid    |
| Odor       | Disagreeable, sweetish odor |

|                                 |                                          |
|---------------------------------|------------------------------------------|
| <b>Particle Characteristics</b> | Not Applicable                           |
| <b>pH</b>                       | Not Available                            |
| <b>Melting Point</b>            | Not characterized for the 5.25% solution |
| <b>Boiling Point</b>            | Not characterized for the 5.25% solution |
| <b>Flash Point</b>              | Not applicable                           |
| <b>Vapor Pressure</b>           | Vapor pressure, kPa at 20 °C: 2 - 2.5    |
| <b>Specific Gravity</b>         | 1.08                                     |
| <b>Solubility</b>               | Complete water solubility                |
| <b>Molecular Formula</b>        | ClNaO                                    |
| <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

|                    |                                           |
|--------------------|-------------------------------------------|
| 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: 2026-08-02; SARA 313 (TRI): 2026-08-02; California Prop 65: 2026-08-02

## 16. OTHER INFORMATION

### Revision Date: 08/11/2026

**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 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.