



# NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.  
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

## Safety Data Sheet (MSDS)

(According to GB/T 16483 and GB/T 17519; Adapts to GHS, IMDG, IATA Standards)

### Sodium Hypochlorite Aqueous Solution (NaClO)

#### SECTION 1: Identification

##### 1.1 Product Identifiers

- Product Name: Sodium Hypochlorite Aqueous Solution
- Product Number: NaOCl-CAS7681529-202708
- Brand: SIGALD
- CAS-No.: 7681-52-9
- Synonyms: Bleach; Hypochlorous Acid Sodium Salt; NaClO Solution
- Chemical Family: Inorganic Hypochlorite Salt

##### 1.2 Details of the supplier of the safety data sheet

- Company : NEWAY SINOPHC TECH. LIMITED
- RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI)PILOT FREE TRADE ZONE.
- Telephone : +86-021-50350029
- Fax : +86-021-50350029

##### 1.3 Emergency telephone

Emergency Phone # : +86-021-50350029  
(CHEMTREC)

##### 1.4 Uses & Restrictions

- Identified Uses: Water disinfection (municipal sewage, drinking water); surface disinfection (facilities, equipment); bleaching (textiles, paper); wastewater treatment (deodorization, sterilization).
- Uses Advised Against: Pharmaceutical, food processing (direct contact) without approval; mixing with acids or ammonia.

#### SECTION 2: Hazards Identification

2.1 GHS Classification: Skin corrosion/irritation (Category 1B); Eye damage (Category 1); Oxidizing liquid (Category 3); Environmental hazard (Category 1, Aquatic toxicity)2.2 GHS Label Elements

- Hazard Pictogram: (Corrosion) + ☞ (Oxidizer) + (Aquatic hazard)
- Signal Word: DANGER
- Hazard Statements: H314 (Causes severe skin burns and eye damage); H272 (May intensify fire; oxidizer); H400 (Very toxic to aquatic life)
- Precautionary Statements: P260, P280, P301+P330+P331, P304+P340, P305+P351+P338, P391, P501

2.3 Physical/Chemical Hazards: Oxidizing agent; reacts violently with acids (releases toxic chlorine gas); incompatible with ammonia, reducing agents, and organic matter.2.4 Health

Hazards: Severe skin/eye burns; inhalation of vapors irritates respiratory tract; ingestion causes



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gastrointestinal burns.2.5 Environmental Hazards: Highly toxic to aquatic organisms; causes long-term adverse effects in aquatic environments.

## SECTION 3: Composition/Information on Ingredients

- Substance/Mixture: Mixture | Component | Content (w/w) | CAS-No. | Hazard Classification | |-----|-----|-----|-----| | Sodium Hypochlorite (NaClO) | 10.0-15.0% | 7681-52-9 | Skin Corros. 1B; Eye Dam. 1; Oxid. Liq. 3; Aquatic Toxicity 1 | | Sodium Hydroxide (Free Alkali) | 0.1-1.0% | 1310-73-2 | Skin Corros. 1B; Eye Dam. 1 | | Deionized Water | Balance | 7732-18-5 | Non-hazardous |

## SECTION 4: First Aid Measures

- Inhaled: Move to fresh air; administer oxygen if breathing is difficult; seek medical attention immediately (chlorine gas may cause pulmonary edema).
- Skin Contact: Remove contaminated clothing; rinse skin with plenty of running water for ≥15 minutes; consult a doctor for burns.
- Eye Contact: Hold eyelids open; rinse with water/normal saline for ≥15 minutes; seek emergency medical help (risk of corneal damage).
- Swallowed: Do not induce vomiting; rinse mouth with water; bring this MSDS to the doctor (caustic burns risk).

## SECTION 5: Firefighting Measures

- Suitable Extinguishing Media: Water spray, foam, CO<sub>2</sub>, dry powder.
- Unsuitable Media: Do not use water jet on concentrated solutions (may splatter).
- Special Hazards: Non-combustible but oxidizing; intensifies fire when in contact with organic matter; decomposes on heating to release chlorine gas.
- Firefighter Advice: Wear SCBA and full corrosion-resistant protective clothing; cool containers with water spray; avoid inhalation of decomposition fumes.

## SECTION 6: Accidental Release Measures

- Personal Precautions: Wear full PPE (chemical goggles, face shield, nitrile gloves, acid-resistant clothing, respiratory protection).
- Environmental Precautions: Prevent runoff into sewers, rivers, or groundwater; contain with sandbags; neutralize before discharge.
- Cleanup: Small spill - absorb with inert materials (sand, vermiculite) and neutralize with sodium bisulfite; large spill - dike and transfer to corrosion-resistant tanks for treatment.

## SECTION 7: Handling and Storage

- Handling: Operate in well-ventilated area; use local exhaust ventilation; avoid contact with skin/eyes; do not mix with acids, ammonia, or organic substances.
- Storage: Cool, dry, well-ventilated warehouse (≤30°C); keep container tightly closed; avoid direct sunlight and high temperature; store separately from acids, reducing agents, and organic materials.



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- Shelf Life: 6 months (unopened, specified conditions); deteriorates over time (loses chlorine content).

### SECTION 8: Exposure Controls/Personal Protection

- Engineering Controls: Install local exhaust ventilation; use acid-resistant equipment; avoid generating vapors.
- Personal Protective Equipment (PPE):
  - Eye/Face Protection: Chemical safety goggles and face shield (EN 166/NIOSH compliant).
  - Skin Protection: Nitrile rubber gloves (0.15mm+ thickness) and acid-resistant clothing.
  - Respiratory Protection: Half-mask respirator with acid gas/chlorine cartridges (when vapors are generated).
- Hygiene Measures: Wash hands thoroughly after work; do not eat/drink/smoke in the workplace.

### SECTION 9: Physical and Chemical Properties

- Physical State: Liquid; Color: Colorless to pale yellow; Odor: Pungent chlorine odor
- pH (25°C): 11.0-13.0; Density (25°C): 1.15-1.25 g/cm<sup>3</sup>; Viscosity (25°C): 10-20 mPa·s
- Boiling Point: 102-105°C; Flash Point: Not applicable (non-flammable); Solubility: Fully miscible with water
- Decomposition Temperature: >50°C (releases Cl<sub>2</sub>); Vapor Pressure (25°C): <1.0 hPa

### SECTION 10: Stability and Reactivity

- Stability: Stable under cool, sealed conditions; decomposes on heating, light exposure, or contact with acids.
- Incompatibilities: Acids (HCl, H<sub>2</sub>SO<sub>4</sub>), ammonia, reducing agents (Fe<sup>2+</sup>, sulfites), organic matter, and combustible materials.
- Hazardous Decomposition Products: Chlorine gas (Cl<sub>2</sub>), sodium chlorate (NaClO<sub>3</sub>), oxygen (O<sub>2</sub>).

### SECTION 11: Toxicological Information

- Acute Toxicity: Oral (Rat, LD<sub>50</sub>): 850 mg/kg (10% solution); Dermal (Rabbit, LD<sub>50</sub>): >2000 mg/kg
- Skin/Eye Irritation: Severe skin burns and eye damage (GHS 1B/1).
- Respiratory Toxicity: Inhalation of chlorine vapors causes coughing, chest tightness, and pulmonary irritation.

### SECTION 12: Ecological Information

- Fish (Zebrafish, LC<sub>50</sub>): 0.5 mg/L (96-hour exposure)
- Daphnia (EC<sub>50</sub>): 0.3 mg/L (48-hour exposure)
- Biodegradability: Biodegradable but toxic to aquatic organisms at low concentrations.

### SECTION 13: Disposal Considerations

- Product Waste: Neutralize with sodium bisulfite or sodium thiosulfate to eliminate oxidizing properties; dispose via licensed hazardous waste facilities.



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- Packaging Waste: Rinse thoroughly with water; dispose as hazardous waste or recycle if permitted.

### **SECTION 14: Transport Information**

- UN Number: ADR/RID: UN 1791; IMDG: UN 1791; IATA-DGR: UN 1791
- UN Proper Shipping Name: Hypochlorite solution, aqueous
- Transport Class: 8; Packaging Group: II; Environmental Hazards: Yes (Marine Pollutant)
- Special Precautions: Transport in corrosion-resistant containers; avoid collision, leakage, and mixing with incompatible substances.

### **SECTION 15: Regulatory Information**

- National Regulations (China): Complies with Hazardous Chemical Safety Management Regulation; meets GB/T 19106-2013.
- International Regulations: GHS Rev.9 (Corrosion 1B, Oxidizer 3, Aquatic Toxicity 1); REACH (EU, not in SVHC List); TSCA (US, listed).

### **SECTION 16: Other Information**

- Revision Date: 20 JAN 2026
- Disclaimer: Based on current scientific knowledge; supplier not liable for improper use.

纳维盈医化科技  
NEWAY SINOPHC TECH