



# MATERIAL SAFETY DATA SHEET

24 HOUR EMERGENCY PHONE

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<b>PRODUCT</b>
<b>CWT-254</b>

## SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: CWT-254  
CHEMICAL NAME: Sodium Hypochlorite  
CHEMICAL FAMILY: Bleach; Hypochlorous Acid; Sodium Salt; Soda Bleach  
FORMULA: NaOCl  
CAS NUMBER: Mixture  
DOT PROPER SHIPPING NAME: Hypochlorite solution *containing more than 7% available chlorine by weight.* (RQ 100/45.4)  
DOT HAZARD CLASS: Corrosive Material  
DOT I.D. NUMBER: UN 1791  
DOT LABEL(S): Corrosive  
RQ PER EPA CERCLA REGS: 100 pounds  
EPA RCRA HAZ WASTE NO.: D002

## SECTION 2: HAZARDOUS INGREDIENTS

ONE PERCENT OR GREATER NAME: Sodium Hypochlorite  
CAS NUMBER: 7681-52-9  
PERCENT: 7 - 16  
TLV: N/A  
CARCINOGEN 0.1 PERCENT OR GREATER: None

## SECTION 3: PHYSICAL DATA

SPECIFIC GRAVITY: 1.18-1.21  
PH: 12.72-13.32  
FLASH POINT: Not Flammable  
BOILING POINT: Decomposes at 125°F  
VAPOR PRESSURE (mm/Hg): 100 @ 125°F  
% VOLATILE BY VOLUME: N/E  
VAPOR DENSITY (Air = 1): 0.9  
EVAPORATION RATE ( =1): As Water  
SOLUBILITY IN WATER: 100%  
REACTIVITY IN WATER: No  
APPEARANCE AND ODOR: Light yellow to green clear liquid; Chlorine odor  
FLAMMABLE LIMITS IN AIR % BY VOLUME: LOWER: N/A UPPER: N/A  
AUTO-IGNITION TEMPERATURE: N/A

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**SECTION 4: FIRE AND EXPLOSION DATA**

**SPECIAL FIRE FIGHTING PROCEDURES:** Cool fire exposed containers with spray. Must wear MSHA/NIOSH approved SCBA.  
**EXTINGUISHING MEDIA:** Dry chemical, CO<sub>2</sub>, Water fog or Standard foam  
**UNUSUAL FIRE AND EXPLOSION HAZARD:** Containers of this material can explode under fire conditions. Oxygen may be liberated upon contact with certain metals. Toxic fumes are liberated by contact with acids or heat.  
**THERMAL DECOMPOSITION PRODUCTS:** HOCl, Chlorine, HCl, NaCl, Sodium Chlorate and Oxygen which depends on pH, temperature and time.

**SECTION 5: HEALTH HAZARDS**

**ACGIH THRESHOLD LIMIT VALUE (TLV):** N/E  
**OSHA PERMISSIBLE EXPOSURE LIMIT (PEL):** N/E  
**PRIMARY ROUTE(S) OF ENTRY:** Inhalation, Skin  
**TOXICITY DATA:** LD<sub>50</sub> 760 mg/kg for males and females combined.  
Dermal: LD<sub>50</sub> 1700 mg/kg  
**NFPA HAZARD RATING**  
(0-1-2-3-4, 0=LEAST/4=MOST): Health 2 Flammability 2 Reactivity 0  
**SIGNS AND SYMPTOMS OF EXPOSURE:**  
1. ACUTE OVER EXPOSURE  
EYES: Corrosive, severe eye damage can result from direct contact.  
SKIN: Severe irritant  
INGESTION: May be fatal. Burning pain in the mouth, throat, abdomen, severe swelling of the larynx, skeletal muscle paralysis affecting the ability to breathe, circulatory shock, convulsions.  
2. CHRONIC OVER EXPOSURE  
None Reported.  
**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** N/A  
**CHEMICAL(S) LISTED AS CARCINOGEN OR POTENTIAL CARC. BY NATIONAL TOXICOLOGY PROGRAM:** None  
**I.A.R.C. MONOGRAPHS:** None  
**OSHA:** None  
**EMERGENCY AND FIRST AID PROCEDURES:**  
1. INHALATION: Remove to fresh air; if not breathing, give artificial respiration. Seek medical attention.  
2. EYES: Flush immediately with water for at least fifteen minutes and seek medical attention immediately.  
3. SKIN: Flush with water while removing contaminated clothing. Wash contaminated clothing before reuse.  
4. INGESTION: Do not induce vomiting. Drink water or milk to dilute and seek medical attention. Note to physician: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsion may be needed.

### SECTION 6: REACTIVITY DATA

STABILITY: Stable  
CONDITIONS TO AVOID: Mixing with strong oxidizers or reducing agents.  
HAZARDOUS DECOMPOSITION PRODUCTS: Toxic hydrogen chloride fumes, oxides of carbon and nitrogen.  
HAZARDOUS POLYMERIZATION: Will not occur  
CONDITONS TO AVOID: N/A

### SECTION 7: SPILL OR LEAK PROCEDURES

GENERAL: Alkali-resistant slicker suit and complete protective equipment. SCBA in the pressure demand mode or a supplied-air respirator.  
PROCEDURE FOR LARGE SPILL/RELEASE: Contain by diking with soil or other non-combustible, absorbent material and carefully neutralize with dilute hydrochloric acid. Keep non-neutralized material out of sewers, storm drains, surface waters and soil. Very toxic to aquatic life.  
PROCEDURE FOR SMALL SPILL/RELEASE: Use full facepiece air-purifying cartridge respirator equipped with acid gases/mists filters. Mop or wipe up and dispose of in DOT approved waste containers.  
WASTE DISPOSAL: Dispose of in accordance with all applicable federal, state, and local laws or ordinances and regulations governing handling, transportation and disposal of hazardous waste materials and environmental protection.

### SECTION 8: SPECIAL PROTECTION

RESPIRATORY: NIOSH/MESA approved respirator appropriate for the vapor or Mist concentration at the point of use.  
VENTILATION: Provide ventilation that will keep airborne contaminants within prescribed limits.  
EYE PROTECTION: Chemical goggles and full face shield.  
PROTECTIVE CLOTHING: Long sleeved shirt, trousers, rubber boots, rubber gloves and rubber apron.  
OTHER PROTECTIVE MEASURES: Eyewash and safety shower

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**SECTION 9: SPECIAL PRECAUTIONS**

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry, well ventilated place away from incompatible materials. Keep container tightly closed when not in use. Do not use pressure to empty container. Do not store on wooden floors, pallets or near wood of any kind.

OTHER PRECAUTIONS: Always obey hazard warnings and handle empty containers as if they were full.

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**SECTION 10: MISCELLANEOUS**

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