



SDS #: 231

Revision Date: March 24, 2014

## Chlorine Water Safety Data Sheet (SDS)

### SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

#### Chlorine Water

**Signal Word**  
**DANGER**

Flinn Scientific, Inc. P.O. Box 219, Batavia, IL 60510 (800) 452-1261  
Chemtrec Emergency Phone Number: (800) 424-9604

Pictograms

### SECTION 2 — HAZARDS IDENTIFICATION

Hazard class: Acute toxicity, oral, dermal, and inhalation (Category 5). May be harmful if swallowed, inhaled or in contact with skin (H303+H313+H333).



Hazard class: Skin and serious eye damage, corrosion or irritation (Category 2, 2B). Causes skin and eye irritation (H315+H320).



In addition, chlorine gas is classified as Hazard class: Acute toxicity, inhalation (Category 1). Fatal if inhaled (H330). Do not breathe gas, mist, vapors or spray (P260).

### SECTION 3 — COMPOSITION, INFORMATION ON INGREDIENTS

Component Name	CAS Number	Formula	Formula Weight	Concentration
Hydrochloric acid	7647-01-0	HCl	36.46	1.4%
Sodium hypochlorite	7681-52-9	NaOCl	74.44	0.5%
Water	7732-18-5	H <sub>2</sub> O	18.00	98%

### SECTION 4 — FIRST AID MEASURES

Immediately call a POISON CENTER or physician (P310).

**If inhaled:** Remove victim to fresh air in a position comfortable for breathing (P304+P340).

**If in eyes:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing (P305+P351+P338). **If eye irritation persists eyes:** Get medical advice or attention (P337+P313).

**If on skin:** Rinse cautiously with water for several minutes (P351).

**If swallowed:** Do NOT induce vomiting. Rinse mouth. Give 2 - 4 cups of water or milk for dilution.

### SECTION 5 — FIRE FIGHTING MEASURES

Nonflammable, noncombustible solution.

**NFPA Code**

In case of fire: Use a tri-class dry chemical fire extinguisher.

None established

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## SECTION 6 — ACCIDENTAL RELEASE MEASURES

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Evacuate area. Open all windows and ventilate as much as possible. If bottle is left open all the chlorine will eventually leave the container. Absorb with sand or absorbent material and after all the chlorine is released, deposit in a sealed bag or container.

See Sections 8 and 13 for further information.

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## SECTION 7 — HANDLING AND STORAGE

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Flinn Suggested Chemical Storage Pattern: Inorganic #2. Store with acetates, halides, sulfates, sulfites, thiosulfates and phosphates. Keep container tightly closed (P233). Store in Flinn Chem-Saf™ bag and then inside Flinn Saf-Stor™ can.

Use only in a hood or well-ventilated area (P271).

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## SECTION 8 — EXPOSURE CONTROLS, PERSONAL PROTECTION

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Wear protective gloves, protective clothing, and eye protection (P280). Wash hands thoroughly after handling (P264). Use only in a hood or well-ventilated area (P271). Wear respiratory protection (P284).

Exposure guidelines: (as chlorine) Ceiling 1 ppm (OSHA); TLV 0.5 ppm, STEL1 ppm (ACGIH)

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## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

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## SECTION 10 — STABILITY AND REACTIVITY

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Avoid contact with organic materials (such as ether, turpentine, hydrocarbons), ammonia, and powdered metals.

Shelf life: Poor, perhaps six months at best. See Section 7 for further information.

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## SECTION 11 — TOXICOLOGICAL INFORMATION

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Acute effects: Very irritating to skin, eyes, and respiratory tract.

Chronic effects: N.A.

Target organs: N.A.

ORL-RBT LD<sub>50</sub>: 900 mg/kg (as concentrated HCl)

IHL-RAT LC<sub>50</sub>: 3124 ppm/1hour (as concentrated HCl)

SKN-RBT LD<sub>50</sub>: greater than 10.000 mg/kg (as sodium hypochlorite)

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## SECTION 12 — ECOLOGICAL INFORMATION

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Data not yet available.

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## SECTION 13 — DISPOSAL CONSIDERATIONS

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Allow the chlorine water to stand in one open container in a hood in a well-ventilated an protected area. The chlorine will leave the water an the container. The remaining water (now effectively degassed) cone be rinsed down the drain.

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## SECTION 14 — TRANSPORT INFORMATION

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Shipping name: Not regulated. Hazard class: N/A. UN number: N/A.

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## SECTION 15 — REGULATORY INFORMATION

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Not listed.

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## SECTION 16 — OTHER INFORMATION

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N.A. = Not available, not all health aspects of this substance have been fully investigated.

N/A = Not applicable

**Consult your copy of the Flinn Science Catalog/Reference Manual for additional information about laboratory chemicals.**

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