

# FLINN SCIENTIFIC INC.

"Your Safer Source for Science Supplies"

## Material Safety Data Sheet (MSDS)

MSDS #: 231.00

Revision Date: March 14, 2001

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### Section 1 — Chemical Product and Company Identification

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#### Chlorine Water

Flinn Scientific, Inc. P.O. Box 219 Batavia, IL 60510 (800) 452-1261

CHEMTREC Emergency Phone Number: (800) 424-9300

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### Section 2 — Composition, Information on Ingredients

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Chlorine (7782-50-5) and Water (7732-18-5)

CAS#: None established

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### Section 3 — Hazards Identification

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Pungent odor, light yellow liquid.

Toxic by inhalation and ingestion. Very irritating to mucous membranes. This is a weak solution of chlorine gas and water. Chlorine gas will slowly leave solution.

#### FLINN AT-A-GLANCE

Health-3  
Flammability-0  
Reactivity-2  
Exposure-3  
Storage-2

0 is low hazard, 3 is high hazard

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### Section 4 — First Aid Measures

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Call a physician, seek medical attention for further treatment, observation and support after first aid.

Inhalation: Remove to fresh air at once. If breathing has stopped give artificial respiration immediately.

Eye: Immediately flush with fresh water for 15 minutes.

External: Wash continuously with fresh water for 15 minutes.

Internal: Give no more than 1-2 cups of water for dilution. Do not induce vomiting. Call a physician or poison control at once.

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### Section 5 — Fire Fighting Measures

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Non flammable liquid.

**Fire Fighting Instructions:** Use triclass, dry chemical fire extinguisher. Firefighters should wear PPE and SCBA with full facepiece operated in positive pressure mode.

#### NFPA CODE

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; after all the chlorine is released, deposit in 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.

Use and dispense in a hood. Keep container tightly closed. Store in Flinn Chem Saf Bag and then inside Flinn Saf Stor Can.

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### Section 8 — Exposure Controls, Personal Protection

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Avoid contact with eyes, skin and clothing. Wear chemical splash goggles, chemical-resistant gloves and chemical-resistant apron.

Use ventilation to keep airborne concentrations below exposure limits. Always wear a NIOSH-approved respirator with proper cartridges or a positive pressure, air-supplied respirator when handling this material in emergency situations (spill or fire).

Exposure guidelines: TWA 0.5 ppm, STEL 1 ppm (OSHA, NIOSH).

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### Section 9 — Physical and Chemical Properties

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Water saturated with chlorine gas. Water 99+% chlorine 0.4%

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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.

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### Section 11 — Toxicological Information

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Acute effects: Very irritating.  
Chronic effects: N.A.  
Target organs: N.A.

ORL-RAT LD50: N.A.  
IHL-RAT LC50: N.A.  
SKN-RBT LD50: N.A.

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

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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 an open container in a hood in a well-ventilated, protected area. The chlorine will leave the water and the container. The remaining water (now effectively degassed) can be put 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

N/A = Not applicable

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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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Consult your copy of the Flinn Scientific Catalog/Reference Manual for additional information about laboratory chemicals. This Material Safety Data Sheet (MSDS) is for guidance and is based upon information and tests believed to be reliable. Flinn Scientific Inc. makes no guarantee of the accuracy or completeness of the data and shall not be liable for any damages relating thereto. The data is offered solely for your consideration, investigation, and verification. Flinn Scientific Inc. assumes no legal responsibility for use or reliance upon this data.

**FLINN SCIENTIFIC INC.**

"Your Safer Source for Science Supplies"

*Flinn Chemical Packaging Prevents Accidents*

flinn@flinnsci.com www.flinnsci.com  
P.O. Box 219 Batavia IL 60510  
(800) 452-1261 Fax (866) 452-1436