Sodium Hypochlorite, 12.5% NSF

1. Identification

Product Name: Sodium Hypochlorite, 12.5% NSF **Item #:** MA0605008 **Web SDS:** S415

Synonyms: Chlorine Bleach

Recommended Use: Laboratory Reagent **Restrictions on Use:** Any use other than recommended

Manufacturer:
BBC Biochemical
409 Eleanor Lane,
Mount Vernon, WA 98273
1-800-635-4477

In Case of Emergency:
Chemtrec US 1-800-424-9300
Chemtrec International 703-527-3887

2. Hazards Identification

OSHA Hazard Classification(s):
Corrosive to Metals - Category 1
Acute Toxicity - Oral - Category 4
Skin Corrosion - Category 1A
Eye Damage - Category 1

Signal Word: DANGER

Hazard Statement(s): May be corrosive to metals. Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Very toxic to aquatic life.

Pictogram(s):

Precautionary Statement(s): Keep only in original container. Do not breathe mist, vapors, or spray. Wash hands, forearms, and exposed areas thoroughly after handling. Avoid release to the environment. Wear eye protection, face protection, protective clothing, protective gloves. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN(or hair): Take off all contaminated clothing immediately. Rinse skin with quick-drench shower. IF INHALED: Remove person to fresh air and keep at rest in a comfortable position for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediately call a poison center, doctor, or physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Dispose of contents and container in accordance to local, regional, national, or international regulations.

Descriptions of Hazards not otherwise classified: N/A

Percent of mixture with unknown acute toxicity: N/A

3. Composition and Information on Ingredients

Chemical Name	Common Name	CAS #	Concentration %
Sodium Hypochlorite	Chlorine Bleach	7681-52-9	12.5%

4. First Aid Measures

Eye Contact: Immediately flush with water for at least 15 minutes. Call a physician.

Skin Contact: Immediately flush with large quantities of cool water continuously for at least 15 minutes. Call a physician. Remove contaminated clothing and shoes. Do not put contaminated clothing and shoes back on. Wash clothing and shoes thoroughly in soap and water; rinse repeatedly in clean water and dry before reuse.

Inhalation: NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Move person to fresh air. If person is not breathing, call 911 or an ambulance. Call a poison control center or doctor for further treatment advice.

Ingestion: Call a poison control center or doctor immediately. Have the person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a doctor or poison control center. Do not give anything by mouth to an unconscious person.

Symptoms: Contacted areas will exhibit severe irritation or burns. Burns may not be immediately apparent. Eye contact may cause permanent injury including blindness. If ingested, may cause nausea, vomiting and death. Effects may include circulatory collapse, delirium, coma and possible perforation of esophagus and stomach. May act as a sensitizer.

Recommendations for immediate medical care/special treatment: Get medical advice/attention if you feel unwell.

5. Fire- Fighting Measures

Extinguishing Media: Dry chemical, carbon dioxide, alcohol foam.

Fire Hazards (Chemical): SPECIFIC HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE: Not considered flammable or explosive. Use extinguishing agents suitable for the surrounding fire and not contraindicated for use with sodium hypochlorite. Sodium hypochlorite releases oxygen when heated, which may increase the severity of an existing fire. Use water spray to cool fire exposed surfaces and to protect personnel. Do not use a direct water stream

Special Protective Equipment: Wear self-contained breathing apparatus and full protective clothing. Use water spray to keep containers cool. Avoid inhalation of material or combustion by products. Firefighters should wear full protective clothing and NIOSH approved positive pressure self-contained breathing apparatus.

Precautions for Firefighters: Chlorine gas. Chlorine gas is an oxidizer and will support combustion.

6. Accidental Release Measures

Emergency Procedures: Evacuate the area of all unnecessary personnel. Wear suitable protective equipment. Eliminate all sources of ignition,provide ventilation, and use non-sparking tools.

Protective Equipment: See section 8

Environmental Precautions: Contain liquid spills with sand and absorb on inert material such as Hazorb or clay. Avoid breathing vapors. Ventilate area.

Containment and Clean-Up Procedures: Dispose with solid wastes. Avoid contact with acids. Do not discharge to sewers or waterways without proper treatment. Contact state and federal environment organizations for disposal.

7. Handling and Storage

Handling: Wear proper safety equipment when handling this product. Handle in accordance with good industrial hygiene and safety procedures. DO NOT MIX SODIUM HYPOCHLORITE 12.5% WITH ACIDS! THIS WILL FORM TOXIC CHLORINE GAS.

Storage: Store in a cool dry area, away from direct sunlight and heat to avoid deterioration. Keep containers closed when not in use. Vent container frequently and more often in hot weather to relieve pressure. Do not reuse or refill this container.

8. Exposure Controls/Personal Protection

OSHA Permissible Exposure Limits (PELs):

Reagent	CAS #	OSHA PEL TWA
Sodium hypochlorite	7681-52-9	N/a

ACGIH Threshold Limit Values (TLVs):

Reagent	CAS #	ACGIH PEL TLV	ACGIH STEL
Sodium Hypochlorite	7681-52-9	N/a	N/a

Engineering Controls: Use in a well ventilated area to prevent exposure. Maintain eyewash fountain and quick-drench facilities in work areas.

Personal Protective Measures: Wear gloves, lab coat, eye protection and impervious footwear. Contact lenses should not be worn when working with this material.

Special PPE Requirements: If ventilation hood not available wear respirator.

9. Physical and Chemical Properties Section

Appearance: N/A, Yellowish-green liquid

Molecular Weight: N/A

Molecular Formula: N/A

pH: 12.3-12.7

Boiling Point and Boiling Range: 284 F (140 C)

Melting Point/Freezing Point: -17 F (-27 C)

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Flash Point: N/A
Specific Gravity/Relative Density: 1.240
Odor: Mild Chlorine
Odor Threshold: 0.3 ppm (for chlorine)
Color: N/A
Flammability (solid/gas): N/A
Vapor Density: N/A
Upper/Lower flammability or explosive limits: N/A
Vapor Pressure: N/A
Evaporation Rate: N/A
Partition Coefficient: n-octanol/water: N/A
Viscosity: N/A
Auto-ignition temperature: N/A
Solubility: N/A
Decomposition Temperature: N/A

10. Stability and Reactivity

Reactivity: Will react with acids and ammonia to release toxic chlorine gas.
Chemical Stability: Stable
Conditions of Stability/Instability: Stale under recommended handling and storage conditions.
Stabilizers needed: None
Safety issue indicated by appearance change: N/A
Other: N/A
Hazardous Reactions: N/A
Hazardous Polymerization: Does not occur
Conditions to avoid: Direct sunlight and high temperatures (over 100 F)
Classes of Incompatible Materials: Acids, amines, ammonia compounds, oxidizing materials, peroxides, organic materials, reducing agents, cyanides, ethers, hydrocarbons, oxidizable materials, and most metals. DO NOT MIX WITH ACIDS, WILL FORM TOXIC CHLORINE GAS.
Hazardous Decomposition Products: Chlorine gas, hypochlorous acid, hydrochloric acid, oxygen gas, hydrogen chloride gas

11. Toxicological Information

Likely Routes of Exposure
Eyes: Causes severe eye damage.
Skin: Causes severe irritation.
Inhalation: May cause nasal and respiratory irritations
Ingestion: Harmful if swallowed

Signs or Symptoms of Exposure: Nausea.
Effects from short term exposure (delayed, immediate, chronic): Irritation to the eyes, nose, throat; headache, dizziness, nausea.
Acute Toxicity (Numerical Measures): LD50 Oral Rat: 8910 mg/kg LD50 Dermal Rabbit: >10,000 mg/m3 LC50 Inhalation: No data
Carcinogenicity (NTP, IARC, OSHA): This material contains no ingredient above de minimus concentrations known or suspected to cause cancer.

12. Ecological Information

Ecotoxicity: Freshwater Fish Data: LC50 (Bluegill sunfish): 2.90 mg/L/96 hours LC50 (Pimephales promelas): 1.40 mg/L/96 hours LC50 (Oncorhynchus mykiss): 0.90 mg/L/0.5 hours Invertebrate Toxicity Data: No data
Persistence and degradability: This product is inorganic and not subject to biodegredation.

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Bioaccumulation Potential (octanol-water partition coefficient, BCF): N/A
Mobility in the soil: N/A
Adverse Environmental Effects: This product contains no hazardous air pollutants (HAPS).

13. Disposal Considerations

Recommended Disposal Containers: Check with your local waste authorities*
Recommended Disposal Methods: Normal for sodium hypochlorite containing wastes. Sodium metabisulfite may be used to neutralize chlorine. May require pH adjustment for neutralization. Dispose in accordance with local, state and federal regulations. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority.
Physical/Chemical Properties affecting Disposal: See section 2 and section 9 applicable information.*
Special Precautions for Landfill and Incineration Activities: Check with your local waste authorities.*
Waste Stream: Consult your local or regional authorities.*

14. Transport Information

UN Number: UN1791
UN Proper Shipping Name: Hypochlorite solutions, 8, PG III, ERG# 154
Transport Hazard Class(es): 8
Packing Group Number: III
Environmental Hazards (IMDG code):
Marine Pollutant:
Transport in Bulk (IBC Code): N/A
Special Transport Precautions: N/A

15. Regulatory Information

OSHA: N/A
DOT: N/A
EPA: N/A
CPSC: N/A

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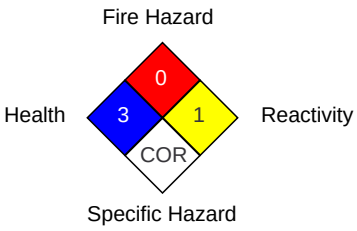
16. Other Information

Revision Date: 11/15/2016

NFPA

Health	3
Fire Hazard	0
Reactivity	1
Specific Hazard	COR

National Fire Protection Association (USA) NFPA



HMIS

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	

Hazardous Material Information System HMIS

Health	3
Flammability	0
Physical Hazard	1
Personal Protection	

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

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