



## Product Safety Data Sheet

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### Section 1: Identification

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**Product Name:** **Sodium Hypochlorite**

**Function:** Microbiocide/sanitizer

**Manufacturer:** Chemco Products, Inc., 1349 Grand Oaks Drive, Howell, MI 48843

**Phone Number:** 517-546-7800

**Transport Emergency Phone Number:** Chemtrec, 800-424-9300

**SDS Issue Date:** May 21, 2015

**Revision Number:**

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### Section 2: Hazard Identification

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**Hazard Classifications:** Corrosive, toxic to aquatic life

**Signal Word:** DANGER!

- CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
- VERY TOXIC TO AQUATIC LIFE

**Precautionary Statements:**

- This product is toxic to aquatic life: prevent spills from contaminating natural waterways.
- Contains sodium hypochlorite and sodium hydroxide. Contact with eyes or skin will cause irritation and possible damage. Wear recommended protective clothing and eyewear when handling product.

**Non-Classified Hazards:** None

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### Section 3: Hazardous Ingredients

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<u>Ingredient Name</u>	<u>CAS Number</u>	<u>net % by weight</u>
Sodium hypochlorite	7681-52-9	12.5
Sodium hydroxide	1310-73-2	1.0

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## **Section 4: First Aid Procedures**

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- Skin Contact: Prolonged contact with skin may produce severe irritation or burns. Remove contaminated clothing and flush contact area with water for 15 minutes. Seek medical attention if irritation persists.
- Eye Contact: Contact with eyes may result in severe irritation or burns. Immediately flush eyes with water or ophthalmic rinse solution; continue flushing with water for 15 minutes to remove any residual material. Seek immediate medical attention.
- Inhalation: Inhalation of product mists or vapors may cause respiratory irritation or burns. Move victim to fresh air. If breathing is difficult, provide oxygen. If irritation persists, seek medical attention.
- Ingestion: Ingestion may result in gastrointestinal distress and/or burns of the throat and digestive system. If victim is conscious, provide water or milk to dilute ingested material. Do not induce vomiting unless instructed by a physician or Poison Control Center. Get immediate medical attention.

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## **Section 5: Fire-Fighting Measures**

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- Special Hazards: Thermal decomposition may produce hazardous chlorine fumes. Wear self-contained breathing apparatus.
- Extinguishing Media: For small fires, use A-B-C fire extinguisher. Large fires may be extinguished with any media suitable for the surrounding fire.

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## **Section 6: Accidental Release Measures**

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- First Responders should wear all recommended personal protective equipment outlined in Section 8. For large spill cleanup, personnel should wear a face shield, chemical-resistant coveralls, and chemical-resistant boots.
- Prevent spills from contaminating natural waterways or municipal sewer systems. Use chemical-resistant spill control socks/booms to minimize spread of spill.
- Reclaim as much spilled material as possible and return to original container. If possible, use dilute sulfite solution to neutralize spill residue, then flush with water to wastewater treatment system.

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## **Section 7: Storage and Handling**

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- Store at room temperature away from acids and organic materials. Keep container closed when not in use.
- Use containment devices to prevent uncontrolled spills.
- Locate emergency eye wash/safety shower near area of use.
- Do not eat, drink, or smoke while handling product; wash thoroughly with soap after handling.
- Do not mix with other chemicals.

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## Section 8: Personal Protection and Exposure Controls

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### Protective Equipment Requirements:

1. Safety glasses or goggles
2. Chemical-resistant gloves
3. Chemical-resistant apron

### Airborne Exposure Limits

<u>Hazardous Ingredient</u>	<u>Exposure Limit</u>
Sodium hypochlorite	2 mg/m <sup>3</sup> (STEL)

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## Section 9: Physical and Chemical Properties (n.a. = not available)

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- Appearance: Clear yellow liquid
- Odor: Bleach/chlorine
- pH, neat: 13
- Specific Gravity: 1.20
- Water solubility: Complete
- Freezing/Boiling points, degrees F: - 10 / 230
- Viscosity: < 100 cps
- Flash point, degrees F: Not flammable
- Upper/Lower explosive limits: n.a.
- Auto-ignition temperature, degrees F: n.a.
- Decomposition temperature: n.a.
- Vapor pressure/density: n.a.
- Evaporation rate: n.a.
- Octanol/Water partition coefficient: n.a.

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## Section 10: Stability and Reactivity

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Chemical Stability: This product is stable under normal storage and use conditions. Keep container closed and prevent exposure to temperature extremes.

Reactivity: This product will produce toxic chlorine gas in contact with strong acids and may react violently in contact with organic compounds.

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## Section 11: Toxicological Information

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Likely route(s) of exposure: eye/skin contact (corrosive)

- Acute oral toxicity: LD<sub>50</sub>, rat = n.a.
- Acute dermal toxicity: LD<sub>50</sub>, rabbit = n.a.

Carcinogenicity/Teratogenicity: No ingredients listed by IARC, NTP, or OSHA.

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## Section 12: Ecological Information

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### a. Aquatic Toxicity

Rainbow trout, 96 hr LC<sub>50</sub>, = < 1.0 mg/l

Daphnia magna, 48 hr LC<sub>50</sub>, = < 1.0 mg/l

Product is highly toxic to aquatic life. Prevent spills from entering natural waterways and sewer systems.

### b. Biodegradability

The ingredients in this product are inorganic; biodegradability does not apply.

### c. Environmental Fate

Long-term effects in the aquatic environment are unknown.

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## Section 13: Disposal Considerations

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Personnel responding to spills of this product should wear splash shield, safety glasses, chemical-resistant coveralls, gloves, and boots.

Product may be considered a hazardous waste, due to corrosivity and reactivity. Small amounts of waste product may be neutralized with sodium sulfite, and then flushed with water to internal wastewater treatment system. Larger quantities should be used up, if possible, or stored in sealed plastic containers for proper disposal at a hazardous waste facility.

Empty containers should be triple-rinsed with water prior to recycling or disposal.

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## Section 14: Transport Information

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**FOR TRANSPORT EMERGENCIES, CONTACT CHEMTREC, 1-800-424-9300**

Proper shipping description: UN1791, Hypochlorite solution, 8, PG III (contains sodium hypochlorite and sodium hydroxide)

DOT Hazard Class(es): Class 8, Corrosive

CERCLA Reportable Spill Quantity (RQ) = 800 lbs./80 gallons

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## Section 15: Regulatory Information

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<u>Regulation</u>	<u>Applicable</u>	<u>Notes</u>
OSHA Hazardous Material	Yes	Corrosive
CERCLA Reportable Spill Quantity (RQ)	Yes	800 lbs.
EPCRA Section 302 Extremely Hazardous Substance	No	
EPCRA Section 311 Hazardous Material	Yes	Acute hazard
EPCRA Section 312 Hazardous Chemical Inventory	Yes	TPQ = 10,000 lbs.
EPCRA Section 313 Toxic Chemical	No	

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## Section 16: Additional Information

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<b><u>HMIS Hazard Rating</u></b>	
<b>Health</b>	<b>3</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>2</b>
<b>Personal Protection</b>	<b>C</b>

**0 = minimal**

**1 = slight**

**2 = moderate**

**3 = serious**

**4 = severe**

**Code C = safety glasses, chemical-resistant gloves and apron**