

SAFETY DATA SHEET

Sodium Hypochlorite Solution 6%

1. Identification

- **Product Name:** Sodium Hypochlorite Solution 6%
 - **Other Names:** Bleach, Liquid Chlorine
 - **Recommended Use:** Disinfectant, cleaning agent, water treatment
 - **Manufacturer:** The Umbrella Products LLC, 2305 Shady Cove Ct, Pearland, TX 77584
 - **Phone Number:** 609 845 8634
 - **Emergency Phone:** 609 845 8634
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2. Hazard Identification

GHS Classification:

- Skin corrosion/irritation (Category 1B)
- Serious eye damage/eye irritation (Category 1)
- Acute aquatic toxicity (Category 1)

GHS Label Elements

- **Hazard Pictograms:**



Signal Word: Danger

Hazard Statements:

- H314: Causes severe skin burns and eye damage.
- H400: Very toxic to aquatic life.

Precautionary Statements:

- P260: Do not breathe mist, vapors, or spray.
 - P280: Wear protective gloves, protective clothing, and eye/face protection.
 - P301 + P330 + P331: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 - P303 + P361 + P353: IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse skin with water/shower.
 - P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - P273: Avoid release to the environment.
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3. Composition/Information on Ingredients

Ingredient	CAS Number	Concentration
Sodium Hypochlorite	7681-52-9	6%
Water	7732-18-5	Balance (~94%)

4. First-Aid Measures

Eye Contact:

Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present. Seek immediate medical attention.

Skin Contact:

Wash skin thoroughly with water for at least 15 minutes. Remove contaminated clothing. Seek medical attention if irritation persists or if a large area is affected.

Inhalation:

Move to fresh air. If breathing is difficult, seek medical attention immediately. Administer oxygen if needed.

Ingestion:

Do NOT induce vomiting. Rinse mouth with water and drink a small amount of water. Seek immediate medical attention.

5. Fire-Fighting Measures

Suitable Extinguishing Media:

Use water spray, foam, or dry chemical. Sodium hypochlorite is non-flammable but can decompose under fire conditions to release toxic chlorine gas.

Specific Hazards:

In the event of fire, decomposition may produce toxic fumes of chlorine, hydrogen chloride, or sodium oxides.

Protective Equipment:

Wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures**Personal Precautions:**

Wear protective gloves, clothing, and eyewear. Ensure adequate ventilation. Avoid inhaling vapors.

Environmental Precautions:

Prevent product from entering drains, waterways, or soil. Avoid release to the environment.

Methods for Containment and Clean-Up:

Contain and collect spill with non-combustible absorbent material (e.g., sand, earth). Neutralize with sodium thiosulfate or other neutralizing agents. Dispose of according to local regulations.

7. Handling and Storage**Handling:**

Avoid contact with skin, eyes, and clothing. Use in a well-ventilated area. Do not mix with acids or ammonia to prevent dangerous chlorine gas release.

Storage:

Store in a cool, dry, well-ventilated area, away from direct sunlight and incompatible materials (acids, ammonia). Keep containers tightly closed.

8. Exposure Controls/Personal Protection**Exposure Limits:**

Ingredient	OSHA PEL	ACGIH TLV
Sodium Hypochlorite	Not established	Not established

Engineering Controls:

Ensure adequate ventilation. Use local exhaust ventilation if needed.

Personal Protective Equipment (PPE):

- **Eye Protection:** Safety goggles or face shield.
 - **Skin Protection:** Wear gloves (rubber, neoprene) and protective clothing.
 - **Respiratory Protection:** Use a mask or respirator if exposure limits are exceeded or ventilation is inadequate.
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9. Physical and Chemical Properties

- **Appearance:** Clear, pale yellow-green liquid
 - **Physical State:** Liquid
 - **Color:** pale yellow green
 - **Odor:** Pungent, chlorine-like odor
 - **Odor Threshold:** Not available
 - **pH:** 11-13 typical
 - **Melting/Freezing Point:** ~0°C (32°F)
 - **Boiling Point/Range:** 100°C (212°F)
 - **Flash Point:** Not applicable (non-flammable)
 - **Evaporation Rate:** Not available
 - **Flammability (solid, gas):** Not available
 - **Lower and Upper Explosive:** Not available
 - **Vapor Pressure:** Not available
 - **Vapor Density:** not available
 - **Relative Density:** 1.2
 - **Solubility:** Easily soluble in the following materials: water
 - **Auto-Ignition Temperature:** Not available
 - **Decomposition Temperature:** Not available
 - **Viscosity:** Not available
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10. Stability and Reactivity

Stability:

Stable under recommended storage conditions.

Incompatible Materials:

Acids, ammonia, reducing agents, and organic materials. Mixing with these substances can cause hazardous chlorine gas to be released.

Hazardous Decomposition Products:

Chlorine gas, hydrogen chloride gas, and sodium oxides.

11. Toxicological Information**Likely Routes of Exposure:**

Inhalation, ingestion, skin contact, eye contact.

Symptoms:

- **Skin Contact:** Causes severe irritation and possible burns.
- **Eye Contact:** Causes severe irritation and burns.
- **Ingestion:** May cause burns to mouth, throat, and stomach. Can be fatal in large quantities.
- **Inhalation:** May cause respiratory irritation.

Chronic Effects:

Prolonged or repeated exposure can cause dermatitis or respiratory issues.

12. Ecological Information**Ecotoxicity:**

Toxic to aquatic life. Avoid release into the environment.

Persistence and Degradability:

Sodium hypochlorite degrades quickly in the environment, but its degradation products (chlorine and other salts) can still be harmful to aquatic life.

13. Disposal Considerations

Dispose of contents and container in accordance with local, regional, and national regulations. Do not release product into waterways.

14. Transport Information

UN Number: UN1791

Shipping Name: Hypochlorite solutions

Transport Hazard Class: 8 (Corrosive)
Packing Group: III

Environmental Hazard: Marine pollutant

15. Regulatory Information

US TSCA: All ingredients are listed or exempted.

SARA 311/312: Acute health hazard.

SARA 313: Not applicable.

California Prop 65: No components listed.

16. Other Information

- **Prepared by:** The Umbrella Products LLC
- **Revision Date:** 10/10/2024
- **Revision:** 1
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