

Material Safety Data Sheet (MSDS)

Product Name: Sodium Hypochlorite (bleaching liquid)

MSDS Generate Date: 20-05-2017

Revision Date: 30-12-2024

Supplier:

Rawpharma Biz Pvt Ltd

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1. Identification of the Substance/Preparation and Company

- **Product Name:** Sodium Hypochlorite (Bleaching Liquid)
- **Synonyms:** Liquid bleach, Hypochlorous acid sodium salt solution
- **Recommended Use:** Disinfectant, bleaching agent, water treatment

2. Hazards Identification

- **Classification:** Corrosive, Oxidizing, Environmentally Hazardous
- **Hazard Statements:**
 - Causes severe skin burns and eye damage
 - Very toxic to aquatic life
 - May release toxic chlorine gas on contact with acids
- **Signal Word:** Danger
- **Pictograms:** Corrosive, Environment

3. Composition / Information on Ingredients

- **Chemical Name:** Sodium Hypochlorite
- **CAS No.:** 7681-52-9
- **Molecular Formula:** NaOCl
- **Concentration:** Typically 4–6% available chlorine in bleaching liquid

4. First Aid Measures

- **Inhalation:** Move to fresh air, keep at rest. If breathing is difficult, seek medical attention immediately.
- **Skin Contact:** Remove contaminated clothing. Wash skin thoroughly with water. Seek medical advice if irritation persists.
- **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.
- **Ingestion:** Do not induce vomiting. Rinse mouth thoroughly. Seek immediate medical advice.

5. Fire-Fighting Measures

- **Suitable Extinguishing Media:** Use water spray, foam, dry chemical, or CO₂.
- **Special Hazards:** Decomposes on heating, releasing chlorine gas.
- **Protective Equipment for Firefighters:** Wear self-contained breathing apparatus and protective clothing.

6. Accidental Release Measures

- Avoid contact with eyes, skin, and clothing.
- Wear protective equipment.
- Absorb spill with inert material (sand, earth).
- Prevent leakage into drains, sewers, or waterways.
- Dispose of as hazardous waste according to local regulations.

7. Handling and Storage

- **Handling:** Avoid contact with skin and eyes. Do not mix with acids or ammonia. Ensure good ventilation.
- **Storage:** Store in cool, dry, well-ventilated area away from direct sunlight, heat, and incompatible materials (acids, metals, reducing agents).

8. Exposure Controls / Personal Protection

- **Occupational Exposure Limits:** No established TLV, but minimize exposure.
- **Personal Protective Equipment (PPE):**
 - Respiratory Protection: Use NIOSH-approved respirator if mist or vapor is generated.
 - Hand Protection: Protective gloves (neoprene or rubber).
 - Eye Protection: Safety goggles/face shield.
 - Skin Protection: Protective clothing, boots.

9. Physical and Chemical Properties

- **Appearance:** Clear to pale yellow-green liquid
- **Odor:** Chlorine-like
- **pH:** 11–13 (alkaline)
- **Boiling Point:** ~100°C
- **Freezing Point:** ~-5°C (varies with concentration)
- **Solubility:** Miscible with water
- **Stability:** Decomposes on prolonged exposure to heat or light

10. Stability and Reactivity

- **Stability:** Unstable at high temperatures; decomposes releasing oxygen and chlorine gas.
- **Incompatible Materials:** Acids, ammonia, reducing agents, organic materials, metals.

- **Hazardous Decomposition Products:** Chlorine, oxygen, sodium chloride.
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11. Toxicological Information

- **Acute Toxicity:**
 - Inhalation: Irritation to respiratory tract.
 - Skin: Corrosive, causes burns.
 - Eyes: Severe irritation, possible damage.
 - Ingestion: Corrosive, harmful, may cause nausea, vomiting, and abdominal pain.
 - **Chronic Exposure:** May cause dermatitis, respiratory irritation.
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12. Ecological Information

- **Aquatic Toxicity:** Very toxic to aquatic life with long-lasting effects.
 - **Persistence and Degradability:** Decomposes to chloride ions.
 - **Bioaccumulation:** Not expected to bioaccumulate.
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13. Disposal Considerations

- Dispose of in accordance with local regulations.
 - Do not discharge to the environment.
 - Neutralize with sodium thiosulfate before disposal, if permitted.
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14. Transport Information (Detailed)

- **UN Number:** 1791
- **Proper Shipping Name:** Hypochlorite solution
- **Transport Hazard Class:** 8 (Corrosive substances)
- **Packing Group:** III
- **Label Required:** Corrosive
- **Marine Pollutant:** Yes

- **Transport by Road (ADR/RID):** Class 8, Packing Group III, UN 1791
- **Transport by Air (IATA):** Prohibited for passenger aircraft above certain volumes; allowed in limited quantities with special packaging requirements.
- **Transport by Sea (IMDG):** Classified as dangerous goods; keep separated from acids, ammonia, and organic matter.
- **Special Precautions:**
 - Do not transport with food, feed, or other consumables.
 - Containers must be tightly closed and upright.
 - Protect from sunlight and heat.

15. Regulatory Information

- Classified as hazardous under OSHA, EU-CLP, and GHS regulations.
- Subject to transport and environmental regulations.

16. Other Information

- The information provided is believed to be accurate but does not constitute a warranty. Users should make their own investigations to ensure suitability for their applications.
- **MSDS Generate Date:** 20-05-2017
- **Revision Date:** 30-12-2024
- **Website:** www.rawpharmabiz.com
- MSDS are based on the manufacturer's provided information.