

SODIUM HYPOCHLORITE BLEACH

MATERIAL SAFETY DATA SHEET

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Effective Date: 01/01/92
Revised Date: 09/27/04

1. PRODUCT IDENTIFICATION

Product Identification: Sodium Hypochlorite Bleach;
Sodium Hypochlorite 12.5% by wt.; Trilite 150 (15%
minimum trade %)
Chemical Name: Sodium Hypochlorite

HAZARD RATINGS		
HEALTH:	3	0 = Least
FLAMMABILITY:	0	1 = Slight
REACTIVITY	2	2 = Moderate
Personal Protection	C	3 = High
		4 = Extreme

2. PRODUCT IDENTIFICATION

Name	CAS	Percent by weight	Exposure OSHA PEL	Limits ACGIH TLV
Sodium Hypochlorite	7681-52-9	12.5	N/E	N/E

3. PHYSICAL DATA

Specific Gravity (H ₂ O = 1):	1.08-1.26
Vapor Pressure (mm Hg):	17.5mmHg @ 70 F.
Vapor Density (Air = 1):	> 1.0
Percent Volatile (by volume):	100.0
Solubility In Water:	Complete
Boiling Point:	110 C. (230 F.)
Melting Point:	N/A
Evaporation Rate:	N/A
Appearance:	Greenish Yellow liquid
Odor:	Pungent Chlorine
pH	>11.0

4. FIRE & EXPLOSION HAZARD DATA

Flash Point ©.: Not flammable
Flammable Limits: N/A
Extinguishing Media: Water spray, dry chemical,
Carbon Dioxide

Special Fire Fighting Precautions: Wear self-contained
breathing apparatus (SCBA)

Unusual Fire & Explosion Hazards: When heated,
bleach decomposes and may cause containers to rupture
or explode. Contact with oxidizing agents or organic
materials may cause fire. Fire generates chlorine gas.

5. REACTIVITY DATA

Stability: Stable

Instability: Becomes unstable after 40 C. (104 F.)

Incompatibility (Materials to Avoid): Acids, organic
material, ammonia, reducing agents, amines, ultraviolet
light.

Hazardous Decomposition or Byproducts: Reacts with
acid to release chlorine gas.

Hazardous Polymerization: Will Not Occur.

Conditions to Avoid: High heat, sunlight exposure.

6. HEALTH HAZARD DATA

Routes of Entry:

Inhalation?	Yes
Skin?	Yes
Ingestion?	Yes
Eyes?	Yes

Health Hazards (Acute & Chronic): Corrosive to skin,
Eyes and mucous membranes. Lung damage, dermatitis.

Carcinogenicity:

NTP?	No
IARC Monographs?	No
OSHA Regulated?	No

Signs and Symptoms of Exposure:

Inhalation: Irritation, coughing; may cause
lung damage.

Skin Contact: Irritation; may cause dermatitis
or ulceration.

Ingestion: Irritation, nausea, vomiting.

Eye Contact: Irritation; may cause burns.

Medical Conditions Generally Aggravated By Exposure:
Respiratory Problems.

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Emergency and First Aid Procedure:

Inhalation: Remove to fresh air. If breathing is difficult, call a physician.

Skin Contact: Flush affected area with water for 15 minutes, call a physician.

Ingestion: If conscious, give water to drink, followed by milk. Do not induce vomiting. Call a physician.

Eye Contact: Flush with water for 15 minutes, Call a physician.

7. PRECAUTIONS—Handling & Use

Steps To Be Taken If Material Is Released or Spilled:

Ventilate spill or leak area. Water personal protective equipment as needed to prevent contact such as goggles, gloves, neoprene or rubber coveralls, rubber boots, and the appropriate level of respiratory protection.

Small Spills: Contain spilled material. Transfer to secure containers. Where necessary, collect using absorbent media like clay or sand.

Large Spills: Wear SCBA. Dike to minimize area of contamination. Dilute with large amounts of water. Pump or vacuum liquid to container. Absorb remaining liquid with inert material such as sand or clay and collect into containers. Avoid contact with organic materials. Avoid direct discharge to sewers or surface waters.

Waste Disposal Method: Consult federal, state, and local regulations.

Handling and Storage Precautions: Store in cool, dry, and well ventilated area away from organics and strong reducing agents. Do not freeze. Keep container closed when not in use. Avoid direct sunlight.

8. CONTROL MEASURES

Respiratory Protection: Use NIOSH approved respirators if above PEL/TLV

Ventilation: Local exhaust if enclosed area

Protective Gloves: Rubber, Neoprene

Eye Protection: Chemical goggles; use face shield for additional protection.

Other Protective Clothing or Equipment:

Proper clothing (such as rubber apron) and boots in accordance with 29CFR1910.133 as needed to protect against contact.

Work/Hygiene Practices: Wash hands and face before eating, drinking, or smoking after handling material. Eye wash station and safety shower must be available in area.

9. REGULATORY INFORMATION

SARA Title III:	Yes
Section 313 Form R:	Yes
Reportable Quantity:	Yes (800 lbs. for 12.5%)
Biodegradability:	Not available.

10. TRANSPORTATION INFORMATION

Shipping Name:	Hypochlorite Solutions
Hazard Class:	8 (Corrosive)
UN Number:	UN 1791
Packing Group:	III

11. REFERENCES

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with Water Guard, Inc. or not. Recipients are advised to confirm in advance that the information is current and applicable to their situation. No warranty is implied. Since conditions of use are beyond Water Guard's control, user assumes all risk.