

# SODIUM HYPOCHLORITE BLEACH, 10-16% /(wt.)

## MATERIAL SAFETY DATA SHEET

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Caribbean Pool Service, INC.  
4541 Raceway Drive  
Concord, NC 28027  
Phone: 704-795-7665

EMERGENCY PHONE: (800) 290-2335  
(8:00 am - 5:00 pm EST)

Chemtrec: 1-800-424-9300 (24 Hours)

Effective Date: 01-01-92

Revised Date: 01-07-04

### 1. PRODUCT IDENTIFICATION

Product Name: Sodium Hypochlorite, 10-16% by wt.  
Tri-Lite 150 (15% min. vol, trade %)  
Tri-Lite 100 (12% min. vol, trade %)

Chemical Name: Sodium Hypochlorite  
Chemical Family: Hypochlorite (Oxidizing Agent)

#### HAZARD RATINGS

HEALTH:	3	0 = Least
FLAMMABILITY:	0	1 = Slight
REACTIVITY:	2	2 = Moderate
PERSONAL PROTECTION:	C	3 = High
		4 = Extreme

### 2. HAZARDOUS INGREDIENTS

Name	CAS	Percent by weight	Exposure Limits	
			OSHA PEL	ACGIH TLV
Sodium Hypochlorite	7681-52-9	14.5-16.0	N/E	N/E

### 3. PHYSICAL DATA

Specific Gravity (H<sub>2</sub>O = 1): 1.158 - 1.260 @ 90° F.  
Vapor Pressure (mm Hg): 17.5 mmHg @ 70° F.  
Vapor Density (Air = 1): > 1.0  
Percent Volatile (by volume): 100.0  
Solubility In Water: Complete  
Boiling Point: 110 °C. in soln. (230 °F.)  
Melting Point: N/A  
Evaporation Rate: N/A  
Appearance: Greenish yellow liquid  
Odor: Pungent like chlorine  
pH: > 11.0

### 4. FIRE AND EXPLOSION HAZARD DATA

Flash Point (°C.): Not flammable  
Flammable Limits: N/A  
Extinguishing Media: Water spray, dry chemical, CO<sub>2</sub>

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

Unusual Fire and 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?	No
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 Procedures:

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

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

### 7. PRECAUTIONS - Handling and Use

#### Steps To Be Taken If Material Is Released or Spilled:

Ventilate spill or leak area. Wear 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.

#### Precautions To Be Taken In Handling and Storing:

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/Hygienic 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

For Sodium Hypochlorite as NaOCl, CAS 7681-52-9

SARA Title III: Yes  
SARA 311/312: Acute; mixture/liquid  
Section 313 Form R: No  
Reportable Quantity: 100 lbs. CERCLA  
RCRA Hazardous Waste: Not listed  
Clean Water Act: 100 lbs.  
TSCA Inventory: Yes  
TSCA 8(d): No  
TSCA 12(b): No  
TSCA Flags: XU

#### State Lists:

Massachusetts Haz. Substance: F8  
Pennsylvania Haz. Substance: E  
Minnesota Haz. Substance: I  
New York Hazardous Substances RQ Air - 100 lbs  
RQ Land - 100 lbs

<u>CAS Number</u>	<u>Chemical Name</u>	<u>% by Weight</u>
7681-52-9	Sodium Hypochlorite	10-16

### 10. TRANSPORTATION INFORMATION

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

Reportable Quantity 100 lbs (DOT)

### 11. REFERENCES

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N/E - Not established

N/A - Not available