



# The Clorox Company

1221 Broadway  
Oakland, CA 94612  
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# Material Safety Data Sheet

**I Product:** CLOROX® HIGH EFFICIENCY BLEACH CLEANER

**Description:** CLEAR ALKALINE LIQUID WITH A CHLORINE ODOR

Other Designations	Distributor	Emergency Telephone Nos.
Sodium Hypochlorite Bleach	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies, call Chemtrec: (800) 424-9300

## II Health Hazard Data

CORROSIVE to the eyes. Injures eyes, skin and mucous membranes on contact. Harmful if swallowed; nausea, vomiting, and burning sensation of the mouth and throat may occur. No adverse health effects are expected with recommended use. Occasional clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g. irritation) occurs during exposure. However, clinical tests conducted on intact skin using a product similar to Clorox® High Efficiency Bleach found no sensitization in the test subjects.

Although not expected, heart conditions or chronic respiratory problems such as asthma, chronic bronchitis or obstructive lung disease may be aggravated by exposure to high concentrations of vapor or mist.

### FIRST AID:

**EYE CONTACT:** Immediately flush eyes with water for 15 minutes. If irritation persists, call a doctor.

**SKIN CONTACT:** Remove contaminated clothing. Flush skin with water. If irritation persists, call a doctor.

**INGESTION:** Drink a glassful of water. **DO NOT** induce vomiting. Immediately contact a doctor or poison control center.

**INHALATION:** Remove from exposure to fresh air. If breathing problems develop, call a doctor.

## III Hazardous Ingredients

Ingredient	Concentration	Worker Exposure Limit
Sodium hypochlorite CAS # 7681-52-9	5-10%	not established
Sodium hydroxide CAS # 1310-73-2	0.1-1%	2 mg/m <sup>3</sup> - TLV-C 2 mg/m <sup>3</sup> - PEL-TWA

TLV-C = ACGIH Threshold Limit Value - Ceiling

PEL-TWA = OSHA Permissible Exposure Limit - Time Weighted Average

None of the ingredients in this product are on the IARC, OSHA or NTP carcinogen lists.

## IV Special Protection and Precautions

**Hygienic Practices:** Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.

**Engineering Controls:** Use local exhaust to minimize exposure to product vapor or mist.

**Personal Protective Equipment:** Wear safety glasses. Wear rubber or neoprene gloves if there is the potential for repeated or prolonged skin contact. In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.

## V Transportation and Regulatory Data

**DOT:** Not restricted per 49 CFR 172.101(c)(12)(iv).

**IMDG:** Not restricted per IMDG Code Page 0021 Paragraph 5.3.5.

**IATA:** Not restricted per IATA D.G.R. Special Provision A3.

**EPA - SARA TITLE III/CERCLA:** This product is regulated under Sections 311/312 and contains no chemicals reportable under Section 313. This product does contain chemicals (sodium hydroxide and sodium hypochlorite) that are regulated under Section 304/CERCLA.

**TSCA/DSL STATUS:** All components of this product are on the U.S. TSCA Inventory and Canadian DSL.

## VI Spill Procedures/Waste Disposal

**Spill Procedures:** Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material. For spills of multiple products, responders should evaluate the MSDS's of the products for incompatibility with sodium hypochlorite. Breathing protection should be worn in enclosed, and/or poorly ventilated areas until hazard assessment is complete.

**Waste Disposal:** Dispose must be made in accordance with applicable federal, state and local regulations.

## VII Reactivity Data

Stable under normal use and storage conditions. Reacts with other household chemicals such as toilet bowl cleaners, rust removers, acids or ammonia containing products to produce hazardous gases, such as chlorine and other chlorinated species. Prolonged contact with metals may cause pitting or discoloration.

## VIII Fire and Explosion Data

Not flammable or explosive.

## IX Physical Data

pH..... ~13.2  
Specific gravity (H<sub>2</sub>O=1) ..... 1.08 - 1.11  
Solubility in water ..... Complete