



# The Clorox Company

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# Material Safety Data Sheet

<b>I Product:</b> CLOROX® OUTDOOR BLEACH CLEANER		
<b>Description:</b> CLEAR ALKALINE LIQUID WITH A CHLORINE ODOR		
<b>Other Designations</b>	<b>Distributor</b>	<b>Emergency Telephone Nos.</b>
Sodium Hypochlorite Bleach	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (800) 424-9300

<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>		
<p>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 (eg. irritation) occurs during exposure. However, clinical tests conducted on intact skin using a product similar to Clorox® Outdoor Bleach found no sensitization in the test subjects.</p> <p>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.</p> <p>FIRST AID: <u>EYE CONTACT</u>: Immediately flush eyes with water for 15 minutes. Contact a physician. <u>INGESTION</u>: Drink a glassful of water. <u>DO NOT</u> induce vomiting. Immediately contact a physician or Poison Control Center. <u>SKIN CONTACT</u>: Remove contaminated clothing. Flush skin with water. Contact a physician if irritation or discomfort persists. <u>INHALATION</u>: Remove from exposure to fresh air.</p>	<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>
	Sodium hydroxide CAS #1310-73-2	0.5-1%	2 mg/m <sup>3</sup> TLV-C
	Sodium hypochlorite CAS #7681-52-9	5-8%	not established
	None of the ingredients in this product are on the IARC, OSHA or NTP carcinogen lists. TLV-C=Threshold Limit Value-Ceiling. The worker exposure limit should not be exceeded at any time. Source: ACGIH., 1985-86.		

<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>
<p>The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale, or prolonged exposure:</p> <p><u>Hygienic Practices</u>: Wear safety glasses or goggles and a face shield. Wear gloves when handling product. The availability of an eye wash and shower is recommended in a manufacturing environment. <u>Engineering Controls</u>: Use general ventilation to minimize exposure to vapors. <u>Work Practices</u>: Avoid eye and skin contact and inhalation of vapor or mist.</p> <p>KEEP OUT OF REACH OF CHILDREN. Avoid all splashing; particularly in eyes, on skin and on clothing.</p>	<p><u>U.S. DOT Hazard Class</u>: Not Restricted per 49 CFR 172.101(c)(12)(iv). <u>U.S. Proper Shipping Name</u>: none <u>IMDG</u>: Not restricted per IMDG Code Page 0021 Paragraph 5.3.5. <u>IATA</u>: Not restricted per IATA D.G.R. Special Provision A3.</p> <p><u>EPA - SARA TITLE III/CERCLA</u>: 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.</p> <p><u>TSCA/DSL STATUS</u>: All components of this product are on the U.S. TSCA Inventory and Canadian DSL.</p>

<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>
<p><u>Spill Procedures</u>: 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.</p> <p><u>Waste Disposal</u>: Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>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.</p>

<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>
<p>Flash Point: None Special Firefighting Procedures: In a fire, cool containers to prevent rupture and release of sodium chlorate. Unusual Fire/Explosion Hazards: None. Not flammable or explosive. Product does not ignite when exposed to open flame.</p>	<p>Boiling point..... approx. 212°F/100°C° Specific Gravity (H<sub>2</sub>O=1) ..... 1.08 - 1.11 Solubility in Water ..... complete pH..... ~13.2</p>