

**The Clorox Company**

1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000

Material Safety Data Sheet

I Product: CLOROX® OUTDOOR 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		III Hazardous Ingredients									
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® Outdoor Bleach Cleaner 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.		<table><thead><tr><th>Ingredient</th><th>Concentration</th><th>Worker Exposure Limit</th></tr></thead><tbody><tr><td>Sodium hypochlorite CAS # 7681-52-9</td><td>5-10%</td><td>not established</td></tr><tr><td>Sodium hydroxide CAS # 1310-73-2</td><td>0.1-1%</td><td>2 mg/m³ - TLV-C^a 2 mg/m³ - PEL-TWA^b</td></tr></tbody></table> ^aTLV-C = ACGIH Threshold Limit Value - Ceiling ^bPEL-TWA = OSHA Permissible Exposure Limit - Time Weighted Average/Short Term Exposure Limit None of the ingredients in this product are on the IARC, OSHA or NTP carcinogen lists.	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 ³ - TLV-C ^a 2 mg/m ³ - PEL-TWA ^b
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 ³ - TLV-C ^a 2 mg/m ³ - PEL-TWA ^b									
IV Special Protection and Precautions		V Transportation and Regulatory Data									
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.		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		VII Reactivity Data									
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.		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		IX Physical Data									
Not flammable or explosive.		pH..... ~13.2 Specific gravity (H ₂ O=1) 1.08 - 1.11 Solubility in water Complete									

©1963, 1991 THE CLOROX COMPANY

DATA SUPPLIED IS FOR USE ONLY IN CONNECTION WITH OCCUPATIONAL SAFETY AND HEALTH

DATE PREPARED 06/07