



**Clorox Professional Products Company**

1212 Broadway  
Oakland, CA 94612  
Tel. 510- 271-7000

**Material Safety  
Data Sheet**

<b>I Product:</b> CLOROX COMMERCIAL SOLUTIONS® CLOROX® GERMICIDAL BLEACH <sub>1</sub>		
<b>Description:</b> CLEAR, LIGHT YELLOW LIQUID WITH A CHARACTERISTIC BLEACH ODOR		
<b>Other Designation</b>	<b>Distributor</b>	<b>Emergency Telephone Nos.</b>
EPA Reg. No. 5813-100-67619	The Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call 1-800-446-1014.  For Transportation Emergencies, call 1-800-424-9300 (Chemtrec).

<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>										
<p><b>DANGER:</b> CORROSIVE. HARMFUL IF SWALLOWED. May cause severe irritation or damage to eyes, skin, and mucous membranes. Wear rubber gloves. Vapors may irritate. Keep out of reach of children.</p> <p>Some clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g., irritation) occurs during exposure. Under normal consumer use conditions the likelihood of any adverse health effects are low.</p> <p>Medical conditions that may be aggravated by exposure to high concentrations of vapor or mist: heart conditions or chronic respiratory problems such as asthma, emphysema, chronic bronchitis, or obstructive lung disease.</p> <p><b>FIRST AID:</b></p> <p><b>EYE CONTACT:</b> Immediately rinse with water for 15 minutes. Remove contact lenses, after first 5 minutes. Call a doctor.</p> <p><b>SKIN CONTACT:</b> Remove contaminated clothing and wash skin thoroughly with water. If irritation persists, call a doctor.</p> <p><b>INGESTION:</b> DO NOT induce vomiting. Drink a glassful of water. Call a doctor or poison control center immediately. Do not try to give anything by mouth to an unconscious person.</p> <p><b>INHALATION:</b> Remove to fresh air. If breathing is affected, call a doctor.</p>	<table border="1"> <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 - 12%</td> <td>Not established.</td> </tr> <tr> <td>Sodium hydroxide CAS #1310-73-2</td> <td>0.1 - 1%</td> <td>2 mg/m<sup>3</sup> - TLV-C<sup>a</sup> 2 mg/m<sup>3</sup> - PEL<sup>b</sup></td> </tr> </tbody> </table> <p><sup>a</sup>TLV-C = ACGIH Threshold Limit Value - Ceiling. <sup>b</sup>TLV-TWA = OSHA Permissible Exposure Limit - Time Weighted Average.</p> <p>None of the ingredients in this product are on the IARC, NTP, or OSHA carcinogen lists.</p>		Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS # 7681-52-9	5 - 12%	Not established.	Sodium hydroxide CAS #1310-73-2	0.1 - 1%	2 mg/m <sup>3</sup> - TLV-C <sup>a</sup> 2 mg/m <sup>3</sup> - PEL <sup>b</sup>
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<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>
<p><b>Hygienic Practices:</b> Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p><b>Engineering Controls:</b> Use general ventilation to minimize exposure to product mist.</p> <p><b>Personal Protective Equipment:</b> 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.</p>	<p><b>DOT:</b> Not restricted per 49 CFR 172.101(c)(12)(iv).</p> <p><b>IMDG:</b> Environmentally hazardous substance, liquid, n.o.s., UN3082, Class 9, PGIII.</p> <p><b>IATA:</b> Environmentally hazardous substance, liquid, n.o.s., UN3082, Class 9, PGIII.</p> <p><b>EPA - SARA TITLE III/CERCLA:</b> This product is regulated under Sections 311/312. This product contains no chemicals reportable under Section 313 and contains sodium hydroxide and sodium hypochlorite that are regulated under Section 304/CERCLA.</p> <p><b>TSCA 8(b):</b> All components of this product are either on the TSCA 8(b) Inventory or otherwise exempt from listing.</p> <p><b>TSCA 12(b):</b> This product is not subject to TSCA 12(b) reporting requirements.</p>

<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>
<p><b>Spill Procedures:</b> 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 MSDSs 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><b>Waste Disposal:</b> Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>Stable under normal use and storage conditions.</p> <p>Strong oxidizing agent. Reacts with other household chemicals such as toilet bowl cleaners, rust removers, vinegar, acids, or ammonia containing products to produce hazardous gases, such as chlorine and other chlorinated species.</p> <p>Prolonged contact with metal may cause pitting or discoloration.</p>

<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>
Not flammable or explosive.	<p>pH..... ~12</p> <p>Specific gravity..... ~1.1</p> <p>Solubility in water..... Soluble</p>