



The Clorox Company  
 7200 Johnson Drive  
 Pleasanton, California 94588  
 Tel. (510) 847-6100

# Material Safety Data Sheet

<b>I Product:</b> CLOROX BLEACH - FOR INSTITUTIONAL USE																
<b>Description:</b> CLEAR, LIGHT YELLOW LIQUID WITH CHLORINE ODOR																
<b>Other Designations</b>	<b>Manufacturer</b>															
EPA Reg. No. 5813-1 Sodium hypochlorite solution Liquid chlorine bleach Clorox Liquid Bleach Clorox Germicidal Bleach	The Clorox Company 1221 Broadway Oakland, CA 94612															
<b>Emergency Telephone No.</b>																
For Medical Emergencies, call Rocky Mountain Poison Center: 1-800-446-1014 For Transportation Emergencies, call: Chemtrec: 1-800-424-9300																
<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>															
<p>* Causes substantial but temporary eye injury. May irritate skin. May cause nausea and vomiting if ingested. Exposure to vapor or mist may irritate nose, throat and lungs. The following medical conditions may be aggravated by exposure to high concentrations of vapor or mist; heart conditions or chronic respiratory problems such as asthma, chronic bronchitis or obstructive lung disease. Under normal consumer use conditions the likelihood of any adverse health effects are low.</p> <p><b>FIRST AID:</b> <u>EYE CONTACT:</u> Immediately flush eyes with plenty of water. If irritation persists, see a doctor. <u>SKIN CONTACT:</u> Remove contaminated clothing. Wash area with water. <u>INGESTION:</u> Drink a glassful of water and call a physician. <u>INHALATION:</u> If breathing problems develop remove to fresh air.</p>	<table border="1"> <thead> <tr> <th>Ingredients</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite CAS # 7681-52-9</td> <td>5.25%</td> <td>not established</td> </tr> </tbody> </table> <p>None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen list. Occasional clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite if skin damage (e.g. irritation) occurs during exposure. Routine clinical tests conducted on intact skin with Clorox Liquid Bleach found no sensitization in the test subjects.</p>	Ingredients	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS # 7681-52-9	5.25%	not established									
Ingredients	Concentration	Worker Exposure Limit														
Sodium hypochlorite CAS # 7681-52-9	5.25%	not established														
<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>															
<p><u>Hygienic Practices:</u> Wear safety glasses. With repeated or prolonged use, wear gloves.</p> <p><u>Engineering Controls:</u> Use general ventilation to minimize exposure to vapor or mist.</p> <p><u>Work Practices:</u> Avoid eye and skin contact and inhalation of vapor or mist.</p> <p><u>Keep out of the reach of children.</u></p>	<p><u>U.S. DOT Hazard Class:</u> Not restricted</p> <p><u>U.S. DOT Proper Shipping Name:</u> Hypochlorite solution with not more than 7% available chlorine. Not Restricted per 49CFR172.101(c)(12)(iv).</p> <p><u>EPA CERCLA/SARA TITLE III Superfund Amendment and Reauthorization Act:</u></p> <table border="1"> <thead> <tr> <th rowspan="2"></th> <th colspan="3">CERLA/304</th> </tr> <tr> <th>RQ (lbs)</th> <th>311/312</th> <th>313</th> </tr> </thead> <tbody> <tr> <td>Sodium hypochlorite</td> <td>100</td> <td>---</td> <td>---</td> </tr> <tr> <td>Sodium hydroxide</td> <td>1000</td> <td>Yes</td> <td>---</td> </tr> </tbody> </table>		CERLA/304			RQ (lbs)	311/312	313	Sodium hypochlorite	100	---	---	Sodium hydroxide	1000	Yes	---
	CERLA/304															
	RQ (lbs)	311/312	313													
Sodium hypochlorite	100	---	---													
Sodium hydroxide	1000	Yes	---													
<b>VI Spill or Leak Procedures</b>	<b>VII Reactivity Data</b>															
<p><u>Small Spills (&lt;5 gallons)</u></p> <p>1) Absorb, containerize, and landfill in accordance with local regulations.        (2) Wash down residual to sanitary sewer.*</p> <p><u>Large Spills (&gt;5 gallons)</u></p> <p>1) Absorb, containerize, and landfill in accordance with local regulations; wash down residual to sanitary sewer.* - OR - (2) Pump material to waste drum(s) and dispose in accordance with local regulations; wash down residual to sanitary sewer.*</p>	<p>Stable under normal use and storage conditions. 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. 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. In a fire, cool containers to prevent rupture and release of sodium chlorate.	<p>Boiling point . . . . . 212°F/100°C decomposes)</p> <p>Specific Gravity (H<sub>2</sub>O=1) . . . . . 1.085</p> <p>Solubility in Water . . . . . complete</p> <p>pH . . . . . 11.4</p>															