



Clorox Professional Products Company
1221 Broadway
Oakland, CA 94612
Tel. (510) 271-7000

Material Safety Data Sheet

I Product: COMMERCIAL SOLUTIONS® ULTRA CLOROX® GERMICIDAL BLEACH I		
Description: CLEAR, LIGHT YELLOW LIQUID WITH CHLORINE ODOR		
Other Designations	Distributor	Emergency Telephone Nos.
EPA Reg. No. 67619-B Sodium Hypochlorite Solution	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call 1-800-446-1014 For Transportation Emergencies, call Chemtrec 1-800-424-9300

II Health Hazard Data	III Hazardous Ingredients									
<p>DANGER: CORROSIVE. May cause severe irritation or damage to eyes and skin. Harmful if Swallowed. 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. Some clinical reports suggest a low potential for sensitization upon exaggerated exposure to sodium hypochlorite, particularly on damaged or irritated skin. Routine clinical tests conducted on intact skin with Clorox Liquid Bleach found no sensitization in the test subjects. Under normal consumer use conditions the likelihood of any adverse health effects are low.</p> <p>FIRST AID:</p> <p>EYE CONTACT: Rinse with plenty of water for at least 15 minutes. Get prompt medical attention.</p> <p>SKIN CONTACT: Wash skin thoroughly with soap and water.</p> <p>INGESTION: Drink large amounts of water. DO NOT induce vomiting. Call a physician or poison control center immediately.</p> <p>INHALATION: If breathing problems develop, remove to fresh air.</p>	<table><tr><th>Ingredient</th><th>Concentration</th><th>Worker Exposure Limit</th></tr><tr><td>Sodium hypochlorite CAS # 7681-52-9</td><td>6.0 - 7.35%</td><td>Not established.</td></tr><tr><td>Sodium hydroxide CAS # 1310-73-2</td><td>< 0.2%</td><td>2 mg/m³ TLV-STEL^a 2 mg/m³ PEL^b</td></tr></table> <p>^aTLV-STEL = ACGIH Threshold Limit Value - Short Term Exposure Limit ^bPEL = OSHA Permissible Exposure Limit - Time Weighted Average</p> <p>None of the ingredients in this product are on the IARC, NTP or OSHA carcinogen list.</p>	Ingredient	Concentration	Worker Exposure Limit	Sodium hypochlorite CAS # 7681-52-9	6.0 - 7.35%	Not established.	Sodium hydroxide CAS # 1310-73-2	< 0.2%	2 mg/m ³ TLV-STEL ^a 2 mg/m ³ PEL ^b
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IV Special Protection and Precautions	V Transportation and Regulatory Data
<p>Hygienic Practices: Wear safety glasses. With repeated or prolonged use, wear nitrile, neoprene, or butyl rubber gloves. Wash after contact with product. Avoid breathing vapors.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to vapor or mist.</p> <p>Work Practices: Avoid eye and skin contact and inhalation of vapor or mist.</p> <p>KEEP OUT OF THE REACH OF CHILDREN.</p>	<p>DOT: Not restricted per 49CFR172.101(c)(12)(iv).</p> <p>IMDG: Not restricted per IMDG Code Page 0021 Paragraph 5.3.5.</p> <p>IATA: Not restricted per IATA D.G.R. Special provision A3.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals regulated under Section 313 and contains sodium hypochlorite and sodium hydroxide which are regulated under Section 304/CERCLA.</p> <p>TSCA Status: All components of this product are on the TSCA Inventory.</p>

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

VIII Fire and Explosion Data	IX Physical Data
<p>Not flammable or explosive.</p> <p>In a fire, cool containers to prevent rupture and release of sodium chlorate.</p>	<p>Boiling point 212 °F 100 °C (decomposes)</p> <p>Specific gravity (H₂O=1, 21 °C) ~1.10</p> <p>Solubility in water Complete</p> <p>pH ~11.4</p>