



**The Clorox Company**

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**Material Safety  
Data Sheet**

<b>I Product:</b> CLOROX COMMERCIAL SOLUTIONS® - CLOROX® HAND SANITIZER											
<b>Description:</b> CLEAR ALCOHOL SOLUTION WITH FRESH, CLEAN FRAGRANCE											
<b>Other Designations</b>	<b>Distributor</b>	<b>Emergency Telephone Nos.</b>									
		For Medical Emergencies call: (800) 446-1014									
<b>II Health Hazard Data</b>		<b>III Hazardous Ingredients</b>									
<p>Eye irritant. May be harmful if swallowed; may cause mental and physical disabilities associated with alcohol intoxication. Inhalation of excess vapors may cause irritation of throat, headache and drowsiness.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p><b>FIRST AID:</b></p> <p><b>EYE CONTACT:</b> Do not rub eyes. Immediately rinse with plenty of water for at least 15 minutes. If irritation persists, call a doctor.</p> <p><b>INGESTION:</b> Do not induce vomiting. Call a doctor or poison control center.</p> <p><b>SKIN CONTACT:</b> Not applicable</p> <p><b>INHALATION:</b> Remove to fresh air. If breathing problems develop, 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>Ethyl Alcohol CAS# 64-17-5</td> <td>66 – 76%</td> <td>1000 ppm – OSHA PEL<sup>b</sup> &amp; TLV-TWA<sup>a</sup></td> </tr> <tr> <td>Isopropyl alcohol CAS #67-63-0</td> <td>5 - 9%</td> <td>200 ppm - TLV-TWA<sup>a</sup> 400 ppm - PEL<sup>b</sup> 400 ppm - TLV-STEL<sup>c</sup></td> </tr> </tbody> </table> <p><sup>a</sup>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average <sup>b</sup>PEL = OSHA Permissible Exposure Limit - Time Weighted Average <sup>c</sup>TLV-STEL = ACGIH Threshold Limit Value - Short Term Exposure Limit</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Ethyl Alcohol CAS# 64-17-5	66 – 76%	1000 ppm – OSHA PEL <sup>b</sup> & TLV-TWA <sup>a</sup>	Isopropyl alcohol CAS #67-63-0	5 - 9%	200 ppm - TLV-TWA <sup>a</sup> 400 ppm - PEL <sup>b</sup> 400 ppm - TLV-STEL <sup>c</sup>
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<b>IV Special Protection and Precautions</b>		<b>V Transportation and Regulatory Data</b>									
<p><b>Hygienic Practices:</b> Do not wear product-contaminated clothing for prolonged periods.</p> <p><b>Engineering Controls:</b> In situations where exposure limits may be exceeded, use local exhaust to minimize exposure to product mist.</p> <p><b>Personal Protective Equipment:</b> In situations where exposure limits may be exceeded, a NIOSH-approved respirator is advised.</p>		<p><b>DOT:</b> Consumer commodity, ORM-D.</p> <p><b>EPA - SARA Title III/CERCLA:</b> This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 and Section 304/CERCLA.</p> <p><b>TSCA/DSL STATUS:</b> 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><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.</p> <p><b>Waste Disposal:</b> Dispose of in accordance with all applicable federal, state, and local regulations.</p>		Stable under normal use and storage conditions.									
<b>VIII Fire and Explosion Data</b>		<b>IX Physical Data</b>									
<p>Avoid contact with ignition sources since product is flammable. Keep away from fire or flame. Keep containers sealed. Avoid freezing conditions.</p> <p><b>Flash Point:</b> 70°F (Tag Closed Cup method)</p> <p><b>Fire Extinguishing Agents:</b> Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, or water spray.</p>		<p>pH.....~4.5 – 9.5</p> <p>Specific gravity.....~0.87</p> <p>Solubility in water .....Soluble</p>									