



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

# Material Safety Data Sheet

<b>I Product:</b> Commercial Solutions™ Formula 409® Heavy Duty Degreaser Disinfectant													
<b>Description:</b> Clear Green Liquid													
<b>Other Designations</b>	<b>Distributed by</b>												
EPA Reg. No. 5813-55-67619	Clorox Professional Products Company 1221 Broadway Oakland, CA 94612												
<b>Emergency Telephone No.</b>													
For Medical Emergencies call: Rocky Mountain Poison Center (800) 446-1014 For Transportation Emergencies Chemtrec (800) 424-9300													
<b>II Health Hazard Data</b>	<b>III Hazardous Ingredients</b>												
<p>Eye irritant. Direct or prolonged skin contact may result in irritation. Avoid contact with food.</p> <p>Overexposure to this product may cause the Worker Exposure Limit of 2-butoxyethanol to be exceeded. 2-butoxyethanol has been shown to cause red blood cell hemolysis in laboratory animals and secondary injury to the kidney and liver. However, humans appear to be resistant to this effect.</p> <p>No known medical conditions are known to be aggravated by exposure to this product.</p> <p><b>FIRST AID:</b></p> <p><b>EYES:</b> Flush eyes with water for at least 15 minutes. Call physician if irritation occurs.</p> <p><b>SKIN CONTACT:</b> Rinse skin with water. If irritation develops contact a physician.</p> <p><b>INGESTION:</b> Drink a glassful of water to dilute. Call a physician.</p> <p><b>INHALATION:</b> Remove from area to fresh air. Seek medical attention if respiratory irritation develops or if breathing becomes difficult.</p> <p>HMIS: H=1, F=1, R=0, PP=A        HMIS Hazard Scale: 1=slight 2=moderate 3=serious 4=severe</p>	<table border="1"> <thead> <tr> <th>Ingredients</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Alkyl (C<sub>12</sub> 40%; C<sub>14</sub> 50% C<sub>8</sub> 10%) dimethyl benzyl ammonium chloride CAS #68424-85-1</td> <td>0.3%</td> <td>Not Established</td> </tr> <tr> <td>Ethylene Glycol Monobutyl Ether CAS #111-76-2</td> <td>3-8%</td> <td>25 ppm TLV-TWA 25 ppm PEL</td> </tr> <tr> <td>Potassium carbonate CAS#584-08-7</td> <td>1-3%</td> <td>Not Established</td> </tr> </tbody> </table> <p>Note that 2-butoxyethanol can be absorbed through the skin and may contribute to overall exposure.</p> <p>None of the ingredients in this product is on the IARC, NTP or OSHA carcinogen lists.</p> <p>TLV-TWA - Threshold Limit Value - Time Weighted Average.        Source: ACGIH 1995-1996.        PEL - Permissible Exposure Limit. Source: OSHA</p>	Ingredients	Concentration	Worker Exposure Limit	Alkyl (C <sub>12</sub> 40%; C <sub>14</sub> 50% C <sub>8</sub> 10%) dimethyl benzyl ammonium chloride CAS #68424-85-1	0.3%	Not Established	Ethylene Glycol Monobutyl Ether CAS #111-76-2	3-8%	25 ppm TLV-TWA 25 ppm PEL	Potassium carbonate CAS#584-08-7	1-3%	Not Established
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<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>												
<p>The following recommendations are given for production facilities and for other conditions and situations where there is increased potential for accidental, large-scale, or prolonged exposure:</p> <p><b>Hygienic Practices:</b> Wash hands after direct contact.</p> <p><b>Engineering Controls:</b> Use general ventilation to minimize exposure to mist.</p> <p><b>Work Practices:</b> Wear safety glasses and gloves. Do not inhale vapor or mist.</p>	<p><b>DOT:</b> Not restricted per 49 CFR 173.120(a)(3) and Appendix H.</p> <p><b>IMO:</b> Not restricted per IMDG Code Page 0016 Paragraph 5.1.3.1.1</p> <p><b>IATA:</b> Not restricted per IATA D.G.R. Sections 3.3.1.2 and 3.3.5</p> <p><b>TSCA Status:</b> All components of this product are on the TSCA inventory.</p> <p><b>EPA - SARA Title III/CERCLA:</b> Bottled product is not reportable under Sections 311/312; contains no chemicals regulated under Section 313; and contains glycol ethers &lt; 8% which is regulated under Section 304/CERCLA.</p>												
<b>VI Spill or Leak Procedures</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>	<p>Stable under normal use and storage conditions.</p>												
<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>												
<p><b>Flash Point:</b> 128°F</p> <p><b>Fire Extinguishing Agents:</b> Dry Chemical, carbon dioxide (CO<sub>2</sub>), foam, or water spray.</p>	<p>pH.....~11.3</p> <p>Specific Gravity.....1.01 @ 25C</p> <p>Solubility in Water.....Soluble</p>												