



**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, THIN LIQUID WITH GREEN, HERBAL, SOLVENT ODOR										
<b>Other Designations</b>	<b>Distributor</b>									
EPA Reg. No. 5813-55-67619	Clorox Sales Company 1221 Broadway Oakland, CA 94612									
<b>Emergency Telephone Nos.</b>										
For Medical Emergencies, call 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>Eye irritant. Prolonged skin contact may result in irritation. Avoid contact with food.</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> Immediately flush eyes with plenty of water. If irritation persists, see a doctor.</p> <p><b>SKIN CONTACT:</b> Wash with water. Seek medical attention if irritation develops or persists.</p> <p><b>INGESTION:</b> Drink a glassful of water. Call a physician. Do not induce vomiting. Do not give anything by mouth to an unconscious or convulsing person.</p> <p><b>INHALATION:</b> If breathing problems develop, remove to fresh air. Seek medical attention if respiratory irritation develops or breathing becomes difficult.</p> <p><b>KEEP OUT OF REACH OF CHILDREN.</b></p>	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Alkyl (40% C<sub>12</sub>, 50% C<sub>14</sub>, 10% C<sub>16</sub>) dimethyl benzyl ammonium chlorides CAS# 68424-85-1</td> <td>0.3%</td> <td>Not established.</td> </tr> <tr> <td>2-Butoxyethanol CAS # 111-76-2</td> <td>3 - 8%</td> <td>20 ppm - skin TLV-TWA<sup>a</sup> 50 ppm - skin PEL<sup>b</sup></td> </tr> </tbody> </table> <p>Note that 2-butoxyethanol can be absorbed through the skin. This may contribute to overall exposure.</p> <p><sup>a</sup>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average  <sup>b</sup>PEL = OSHA Permissible Exposure Limit - Time Weighted Average</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredient	Concentration	Worker Exposure Limit	Alkyl (40% C <sub>12</sub> , 50% C <sub>14</sub> , 10% C <sub>16</sub> ) dimethyl benzyl ammonium chlorides CAS# 68424-85-1	0.3%	Not established.	2-Butoxyethanol CAS # 111-76-2	3 - 8%	20 ppm - skin TLV-TWA <sup>a</sup> 50 ppm - skin 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 vapor or 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>Not recommended for use on soft vinyl, varnishes, or aluminum. If sprayed on these surfaces, rinse and wipe dry immediately.</p>	<p><b>DOT:</b> Not restricted per 49 CFR 173.120(a)(3) and Appendix H.</p> <p><b>IMDG:</b> Not restricted per IMDG Code Page 40 Paragraph 2.3.1.3.</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> This product is regulated under Sections 311/312. This product contains glycol ethers (&lt;8%) which are regulated under Section 313 and Section 304/CERCLA and contains potassium hydroxide (CAS #1310-58-3, &lt;0.1%) which is regulated under Section 304/CERCLA.</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><b>Flash Point:</b> 128°F (closed cup)</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..... ~1.0</p> <p>Solubility in water..... complete</p>									