



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

# Material Safety Data Sheet

<b>I Product:</b> FORMULA 409® ALL PURPOSE CLEANER LEMON FRESH		
<b>Description:</b> CLEAR YELLOW LIQUID WITH CITRUS ODOR		
<b>Other Designations</b>	<b>Distributor</b>	<b>Emergency Telephone Nos.</b>
EPA Registration Number 5813-55	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies call: (800) 446-1014 For Transportation Emergencies Chemtrac (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. 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> Flush eyes with plenty of water for 15 minutes. If irritation occurs, call a physician.</p> <p><b>SKIN CONTACT:</b> Wash skin with water. If irritation persists, call a physician.</p> <p><b>INGESTION:</b> Drink a glassful of water. Call a physician.</p> <p><b>INHALATION:</b> Remove to fresh air. If respiratory irritation develops or breathing becomes difficult, call a physician.</p>	<table border="1"> <thead> <tr> <th>Ingredient</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>16</sub> 10%) dimethyl benzyl ammonium chloride CAS # 68424-85-1</td> <td>0.3%</td> <td>Not established.</td> </tr> <tr> <td>2-Butoxyethanol CAS # 111-76-2</td> <td>1 - 5%</td> <td>25 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 (C <sub>12</sub> 40%; C <sub>14</sub> 50%; C <sub>16</sub> 10%) dimethyl benzyl ammonium chloride CAS # 68424-85-1	0.3%	Not established.	2-Butoxyethanol CAS # 111-76-2	1 - 5%	25 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.</p> <p><b>Engineering Controls:</b> Use local exhaust to minimize exposure to product 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.</p>	<p><b>DOT/IATA/IMO:</b> Not restricted.</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> Packaged product is not reportable under Sections 311/312. This product contains no chemicals which are regulated under Section 313 and contains glycol ethers (&lt;5%) and sodium hydroxide (CAS #1310-73-2, &lt;0.5%), which are 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>	<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> &gt;200°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 ..... ~12.5</p> <p>Specific gravity ..... ~1.0</p> <p>Solubility in water ..... Soluble</p>