



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

# Material Safety Data Sheet

<b>Product:</b> FORMULA 409® NQF							
<b>Description:</b> CLEAR, GREEN, THIN LIQUID WITH SOLVENT ODOR							
<b>Other Designations</b>	<b>Distributor</b>						
	Clorox Professional Products 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>						
Mild eye irritant.  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.  <b>FIRST AID:</b>  <b>EYE CONTACT:</b> Flush eyes with plenty of water for 15 minutes. If irritation persists, call a physician.  <b>SKIN CONTACT:</b> Wash skin with water.  <b>INGESTION:</b> Drink a glassful of water. Call a physician or poison control center.  <b>INHALATION:</b> Remove to fresh air. If breathing problems develop, call a physician.	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <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	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>						
<b>Hygienic Practices:</b> Wash hands after direct contact.  <b>Engineering Controls:</b> Use general ventilation to minimize exposure to product mist.  <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.	<b>DOT/IATA/IMDG:</b> Not restricted.  <b>TSCA Status:</b> All components of this product are on the TSCA inventory.  <b>EPA - SARA Title III/CERCLA:</b> This product is regulated under Sections 311/312. This product contains glycol ethers (<5%) which are regulated under Section 313 and Section 304/CERCLA and contains sodium hydroxide (CAS #1310-73-2, <0.3%) which is regulated under Section 304/CERCLA.						
<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>						
<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.  <b>Waste Disposal:</b> Dispose of in accordance with all applicable federal, state, and local regulations.	Stable under normal use and storage conditions.						
<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>						
Not flammable or explosive.	pH..... ~12.5 Specific gravity ..... ~1.0 Solubility in water..... Soluble						