



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

Material Safety Data Sheet

I Product: COMMERCIAL SOLUTIONS® FORMULA 409® HEAVY DUTY DEGREASER DISINFECTANT											
Description: CLEAR, GREEN, THIN LIQUID WITH GREEN, HERBAL, SOLVENT ODOR											
Other Designations	Distributor	Emergency Telephone Nos.									
EPA Reg. No. 5813-55-67619	Clorox Sales Company 1221 Broadway Oakland, CA 94612	For Medical Emergencies, call 1-800-446-1014 For Transportation Emergencies, call Chemtrec 1-800-424-9300									
II Health Hazard Data	III Hazardous Ingredients										
<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>FIRST AID:</p> <p>EYE CONTACT: Immediately flush eyes with plenty of water. If irritation persists, see a doctor.</p> <p>SKIN CONTACT: Wash with water. Seek medical attention if irritation develops or persists.</p> <p>INGESTION: 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>INHALATION: If breathing problems develop, remove to fresh air. Seek medical attention if respiratory irritation develops or breathing becomes difficult.</p> <p>KEEP OUT OF REACH OF CHILDREN.</p>	<table border="1"> <thead> <tr> <th><u>Ingredient</u></th> <th><u>Concentration</u></th> <th><u>Worker Exposure Limit</u></th> </tr> </thead> <tbody> <tr> <td>Alkyl (40% C₁₂, 50% C₁₄, 10% C₁₆) 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^a 50 ppm - skin PEL^b</td> </tr> </tbody> </table> <p>Note that 2-butoxyethanol can be absorbed through the skin. This may contribute to overall exposure.</p> <p>^aTLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average ^bPEL = 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>		<u>Ingredient</u>	<u>Concentration</u>	<u>Worker Exposure Limit</u>	Alkyl (40% C ₁₂ , 50% C ₁₄ , 10% C ₁₆) 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 ^a 50 ppm - skin PEL ^b
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IV Special Protection and Precautions	V Transportation and Regulatory Data										
<p>Hygienic Practices: Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.</p> <p>Engineering Controls: Use general ventilation to minimize exposure to vapor or mist.</p> <p>Personal Protective Equipment: 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>DOT: Not restricted per 49 CFR 173.120(a)(3) and Appendix H.</p> <p>IMDG: Not restricted per IMDG Code Page 40 Paragraph 2.3.1.3.</p> <p>IATA: Not restricted per IATA D.G.R. Sections 3.3.1.2 and 3.3.5.</p> <p>TSCA Status: All components of this product are on the TSCA inventory.</p> <p>EPA - SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains glycol ethers (<8%) which are regulated under Section 313 and Section 304/CERCLA and contains potassium hydroxide (CAS #1310-58-3, <0.1%) which is regulated under Section 304/CERCLA.</p>										
VI Spill Procedures/Waste Disposal	VII Reactivity Data										
<p>Spill Procedures: 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>Waste Disposal: Dispose of in accordance with all applicable federal, state, and local regulations.</p>	Stable under normal use and storage conditions.										
VIII Fire and Explosion Data	IX Physical Data										
<p>Flash Point: 128°F (closed cup)</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>	<p>pH..... ~11.3</p> <p>Specific gravity..... ~1.0</p> <p>Solubility in water..... complete</p>										