



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

Material Safety Data Sheet

Product: COMMERCIAL SOLUTIONS® FORMULA 409® ORANGE CLEANER DEGREASER											
Description: CLEAR YELLOW-TO-ORANGE LIQUID WITH FRESH ORANGE AROMA											
Other Designations	Distributor	Emergency Telephone Nos.									
	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>CAUTION: EYE IRRITANT. Avoid eye and prolonged skin contact. Do not ingest.</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 water. Call 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>Ingredients</th> <th>Concentration</th> <th>Worker Exposure Limit</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>Isopropanol CAS# 67-63-0</td> <td>< 2.0%</td> <td>400 ppm - TLV-TWA^a 400 ppm - PEL^b 500 ppm - TLV-STEL^c</td> </tr> </tbody> </table> <p>^aTLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average ^bPEL = OSHA Permissible Exposure Limit - Time Weighted Average ^cTLV-STEL = ACGIH Threshold Limit Value - Short Term Exposure Limit</p> <p>None of the materials in this product are on the IARC, OSHA, or NTP carcinogen lists.</p>	Ingredients	Concentration	Worker Exposure Limit	Alkyl (40% C ₁₂ , 50% C ₁₄ , 10% C ₁₆) dimethyl benzyl ammonium chlorides CAS# 68424-85-1	< 0.3%	Not established.	Isopropanol CAS# 67-63-0	< 2.0%	400 ppm - TLV-TWA ^a 400 ppm - PEL ^b 500 ppm - TLV-STEL ^c
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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.</p> <p>Not recommended for use on soft vinyl, varnishes, aluminum, or polystyrene. 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>EPA-SARA Title III/CERCLA: This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 and contains potassium hydroxide (< 0.05%) which is regulated under Section 304/CERCLA.</p> <p>TSCA: All components of this product are on the TSCA inventory.</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: 113°F (Tag closed cup).</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>		<p>pH..... ~10.6</p> <p>Specific gravity..... ~1.0</p> <p>Solubility in water..... Complete</p>									