



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

Material Safety Data Sheet

Product: COMMERCIAL SOLUTIONS® PINE-SOL® BRAND CLEANER														
Description: CLEAR AMBER LIQUID WITH CHARACTERISTIC PINE ODOR														
Other Designations	Distributor	Emergency Telephone Nos.												
EPA Reg. No. 5813-54-67619	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. May cause skin 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, call a physician.</p> <p>INGESTION: Do not induce vomiting. Promptly drink a large amount of milk or water. Call a physician.</p> <p>SKIN CONTACT: Wash skin with water. If irritation persists, call a physician.</p> <p>INHALATION: Remove to fresh air. If breathing problems develop, 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>Pine oil CAS # 8002-09-3</td> <td>10 - 20%</td> <td>Not established.</td> </tr> <tr> <td>Isopropyl alcohol CAS #67-63-0</td> <td>4 - 7%</td> <td>400 ppm - TLV-TWA^a 400 ppm - PEL^b 500 ppm - TLV-STEL^c</td> </tr> <tr> <td>Alkyl alcohol ethoxylates CAS # 66455-15-0</td> <td>2 - 6%</td> <td>Not established.</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>	Ingredient	Concentration	Worker Exposure Limit	Pine oil CAS # 8002-09-3	10 - 20%	Not established.	Isopropyl alcohol CAS #67-63-0	4 - 7%	400 ppm - TLV-TWA ^a 400 ppm - PEL ^b 500 ppm - TLV-STEL ^c	Alkyl alcohol ethoxylates CAS # 66455-15-0	2 - 6%	Not established.
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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 local exhaust to minimize exposure to product 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>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 sodium dodecylbenzenesulfonate (CAS #26155-30-0, <4%), ammonium hydroxide (CAS #1336-21-6, <1%), benzoic acid (CAS #65-85-0, <1%) and glycol ethers (<1%) which are 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: 105° F (Setaflash closed cup).</p> <p>Fire Extinguishing Agents: Dry chemical, carbon dioxide (CO₂), foam, or water spray.</p>		<p>pH..... 9.0 - 4.0</p> <p>Specific gravity =1.0</p> <p>Solubility in water..... Soluble</p>												