



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

# Material Safety Data Sheet

<b>Product:</b> COMMERCIAL SOLUTIONS® PINE-SOL® BRAND CLEANER													
<b>Description:</b> CLEAR AMBER LIQUID WITH CHARACTERISTIC PINE ODOR													
<b>Other Designations</b>	<b>Distributor</b>												
EPA Reg. No. 5813-54-67619	Clorox Sales 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>												
<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><b>FIRST AID:</b></p> <p><b>EYE CONTACT:</b> Immediately flush eyes with plenty of water. If irritation persists, call a physician.</p> <p><b>INGESTION:</b> Do not induce vomiting. Promptly drink a large amount of milk or water. Call a physician.</p> <p><b>SKIN CONTACT:</b> Wash skin with water. If irritation persists, call a physician.</p> <p><b>INHALATION:</b> 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<sup>a</sup> 400 ppm - PEL<sup>b</sup> 500 ppm - TLV-STEL<sup>c</sup></td> </tr> <tr> <td>Alkyl alcohol ethoxylates CAS # 66455-15-0</td> <td>2 - 6%</td> <td>Not established.</td> </tr> </tbody> </table> <p><sup>a</sup>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average  <sup>b</sup>PEL = OSHA Permissible Exposure Limit - Time Weighted Average  <sup>c</sup>TLV-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 <sup>a</sup> 400 ppm - PEL <sup>b</sup> 500 ppm - TLV-STEL <sup>c</sup>	Alkyl alcohol ethoxylates CAS # 66455-15-0	2 - 6%	Not established.
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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. Do not wear product-contaminated clothing for prolonged periods.</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:</b> Not restricted per 49 CFR 173.120(a)(3) and Appendix H.</p> <p><b>IMDG:</b> Not restricted per IMDG Code Page 40 Paragraph 2.3.1.3.</p> <p><b>IATA:</b> Not restricted per IATA D.G.R. Sections 3.3.1.2 and 3.3.5.</p> <p><b>EPA - SARA Title III/CERCLA:</b> This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 and contains sodium dodecylbenzenesulfonate (CAS #25155-30-0, &lt;4%), ammonium hydroxide (CAS #1336-21-6, &lt;1%), benzoic acid (CAS #65-85-0, &lt;1%) and glycol ethers (&lt;1%) 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>	Stable under normal use and storage conditions.												
<b>VIII Fire and Explosion Data</b>	<b>IX Physical Data</b>												
<p><b>Flash Point:</b> 105° F (Setaflash closed cup).</p> <p><b>Fire Extinguishing Agents:</b> Dry chemical, carbon dioxide (CO<sub>2</sub>), foam, or water spray.</p>	<p>pH.....3.0 - 4.0</p> <p>Specific gravity ..... ~1.0</p> <p>Solubility in water.....Soluble</p>												