

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

<b>I Product:</b> COMMERCIAL SOLUTIONS™ LEMON FRESH! PINE-SOL® ALL PURPOSE CLEANER										
<b>Description:</b> CLEAR, YELLOW, THIN LIQUID WITH CITRUS ODOR										
<b>Other Designations</b>	<b>Distributor</b>									
	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>									
Eye irritant. May cause skin irritation.  No medical conditions are known to be aggravated by exposure to this product.  <u>FIRST AID:</u>  <u>EYE CONTACT:</u> Immediately rinse with plenty of water. If irritation persists, call a doctor.  <u>INGESTION:</u> Drink a glassful of water. Call a doctor or poison control center.  <u>SKIN CONTACT:</u> Rinse with plenty of water. If irritation persists, call a doctor.  <u>INHALATION:</u> Remove to fresh air. If breathing problems develop, call a doctor.	<table border="1"> <thead> <tr> <th>Ingredient</th> <th>Concentration</th> <th>Worker Exposure Limit</th> </tr> </thead> <tbody> <tr> <td>Alkyl alcohol ethoxylates CAS # 66455-15-0</td> <td>5 - 10%</td> <td>Not established.</td> </tr> <tr> <td>Monoethanolamine CAS #141-43-5</td> <td>0.5 – 1.5%</td> <td>3 ppm - TLV-TWA<sup>a</sup> 3 ppm - PEL<sup>b</sup> 6 ppm - TLV-STEL<sup>c</sup></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	Alkyl alcohol ethoxylates CAS # 66455-15-0	5 - 10%	Not established.	Monoethanolamine CAS #141-43-5	0.5 – 1.5%	3 ppm - TLV-TWA <sup>a</sup> 3 ppm - PEL <sup>b</sup> 6 ppm - TLV-STEL <sup>c</sup>
Ingredient	Concentration	Worker Exposure Limit								
Alkyl alcohol ethoxylates CAS # 66455-15-0	5 - 10%	Not established.								
Monoethanolamine CAS #141-43-5	0.5 – 1.5%	3 ppm - TLV-TWA <sup>a</sup> 3 ppm - PEL <sup>b</sup> 6 ppm - TLV-STEL <sup>c</sup>								
<b>IV Special Protection and Precautions</b>	<b>V Transportation and Regulatory Data</b>									
<u>Hygienic Practices:</u> Wash hands after direct contact. Do not wear product-contaminated clothing for prolonged periods.  <u>Engineering Controls:</u> Use local exhaust to minimize exposure to product mist.  <u>Personal Protective Equipment:</u> 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.	<u>DOT/IATA/IMDG:</u> Not restricted.  <u>EPA - SARA Title III/CERCLA:</u> This product is regulated under Sections 311/312. This product contains no chemicals which are regulated under Section 313 and contains glycol ethers (<1%) which are regulated under Section 304/CERCLA.									
<b>VI Spill Procedures/Waste Disposal</b>	<b>VII Reactivity Data</b>									
<u>Spill Procedures:</u> Absorb and containerize. Wash residual down to sanitary sewer. Contact the sanitary treatment facility in advance to assure ability to process washed-down material.  <u>Waste Disposal:</u> 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>									
<u>Flash Point:</u> >200°F (closed cup) <u>Fire Extinguishing Agents:</u> Dry chemical, carbon dioxide (CO <sub>2</sub> ), foam, or water spray.	pH..... ~10.5 Specific gravity ..... ~1.0 Solubility in water..... Soluble									