



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

# Material Safety Data Sheet

**I Product:** CLOROX® AUTOMATIC TOILET BOWL CLEANER I

**Description:** WHITE TABLET WITH CHLORINE ODOR

Other Designations	Distributor	Emergency Telephone Nos.
EPA Reg. No. 5813-65	The 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>Direct contact with eyes may cause irreversible damage. Harmful if swallowed. Direct contact with mucous membranes may cause severe irritation or irreversible damage. Severe skin irritant. Prolonged contact with skin may cause irreversible damage. Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction.</p> <p>No medical conditions are known to be aggravated by exposure to this product.</p> <p><b>FIRST AID:</b>  <b>EYE CONTACT:</b> Flush eyes immediately with water for at least 15 minutes; then call a physician.  <b>INGESTION:</b> Rinse mouth, and drink a glassful of water. Do not induce vomiting. Call a physician.  <b>SKIN CONTACT:</b> Wash skin immediately with water for 15 minutes; then call a physician.  <b>INHALATION:</b> Remove to fresh air. If irritation or breathing problems persist, 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>1-bromo-3-chloro-5,5-dimethylhydantoin CAS # 16079-88-2</td> <td>51%</td> <td>Not established.</td> </tr> <tr> <td>1,3-Dichloro-5,5-dimethylhydantoin CAS # 118-52-5</td> <td>23.3%</td> <td>0.2 mg/m<sup>3</sup> - TLV-TWA<sup>a</sup> 0.4 mg/m<sup>3</sup> - TLV-STEL<sup>b</sup> 0.2 mg/m<sup>3</sup> - PEL<sup>c</sup></td> </tr> <tr> <td>1,3-Dichloro-5-ethyl-5-methylhydantoin CAS # 89415-87-2</td> <td>9.0%</td> <td>Not established.</td> </tr> <tr> <td>Boric Acid CAS #10043-35-3</td> <td>10-20%</td> <td>10 mg/m<sup>3</sup> - TLV-TWA<sup>a</sup> 15 mg/m<sup>3</sup>-PEL<sup>c</sup> (total dust) 5 mg/m<sup>3</sup>-PEL<sup>c</sup> (respirable dust)</td> </tr> </tbody> </table> <p><sup>a</sup>TLV-TWA = ACGIH Threshold Limit Value - Time Weighted Average.  <sup>b</sup>TLV-STEL = ACGIH Threshold Limit Value - Short Term Exposure Limit.  <sup>c</sup>PEL = OSHA - Permissible 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	1-bromo-3-chloro-5,5-dimethylhydantoin CAS # 16079-88-2	51%	Not established.	1,3-Dichloro-5,5-dimethylhydantoin CAS # 118-52-5	23.3%	0.2 mg/m <sup>3</sup> - TLV-TWA <sup>a</sup> 0.4 mg/m <sup>3</sup> - TLV-STEL <sup>b</sup> 0.2 mg/m <sup>3</sup> - PEL <sup>c</sup>	1,3-Dichloro-5-ethyl-5-methylhydantoin CAS # 89415-87-2	9.0%	Not established.	Boric Acid CAS #10043-35-3	10-20%	10 mg/m <sup>3</sup> - TLV-TWA <sup>a</sup> 15 mg/m <sup>3</sup> -PEL <sup>c</sup> (total dust) 5 mg/m <sup>3</sup> -PEL <sup>c</sup> (respirable dust)
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IV Special Protection and Precautions	V Transportation and Regulatory Data
<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> Not normally required if product is used as directed. However, if handling of product produces dust, local exhaust may be necessary.</p> <p><b>Personal Protective Equipment:</b> Wear safety glasses or goggles and rubber gloves. Respiratory equipment is not normally required if product is used as directed. However, if handling of product produces dust, respiratory equipment may be necessary.</p>	<p><b>DOT Proper Shipping Name:</b> Consumer Commodity ORM-D.  <b>IMO Proper Shipping Name:</b> Dangerous goods in limited quantities of Class 5.1.  <b>IATA Proper Shipping Name:</b> Oxidizing solid, n.o.s., Class 5.1, Packing Group II.</p> <p><b>EPA - SARA Title III/CERCLA:</b> This product is a hazardous chemical reportable under Sections 311/312; contains no chemicals regulated under Section 313; and contains no chemicals which are regulated under Section 304/CERCLA.</p>

VI Spill Procedures/Waste Disposal	VII Reactivity Data
<p><b>Spill Procedures:</b> Wear appropriate protective gear and respiratory protection. Sweep up material and place in a compatible container for disposal. Since material is toxic to fish, do not discharge into lakes, streams, ponds or public water unless in accordance with NPDES permit.</p> <p><b>Waste Disposal:</b> Dispose of in accordance with all applicable federal, state, and local regulations.</p>	<p>Reacts with other household chemicals such as acid toilet bowl cleaners, rust removers, acids, vinegar, and ammonia-containing products to produce hazardous gases, such as chlorine/bromine and other chlorinated/brominated compounds. Avoid contact with strong alkalis.</p> <p>Material is an oxidizer. Avoid contact with readily-oxidizable materials.</p> <p>Stable under normal use and storage conditions.</p>

VIII Fire and Explosion Data	IX Physical Data
<p><b>Flashpoint:</b> &gt;200°F</p> <p>Not flammable or explosive. Decomposes at 165°C. Do not use ABC-type fire extinguishers with fires involving this product.</p>	<p>Density (a granule) ..... 1.57gr/cc  pH ..... NA</p>