The State® CHEMICAL MANUFACTURING CO. 
MAIN OFFICE AND PLANT CLEVELAND, OHIO 44114 
DISTRIBUTION CENTERS SALES OFFICES NATIONWIDE 

Toilet Bowl Cleaner

MATERIAL SAFETY DATA SHEET

Name: Li'l Brother San
Type: Bowl Cleaner

D.O.T.
Shipping Name: Compound Cleaning Liquid (containing hydrochloric acid)

Hazard Class: Corrosive Material

ID No.: NA 1789
Label: Corrosive

II. HAZARDOUS INGREDIENTS

<table>
<thead>
<tr>
<th>Material</th>
<th>Weight %</th>
<th>TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Muriatic acid (CAS 7648-38-2)</td>
<td>&lt; 15</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Hydrochloric acid (CAS 7647-01-0)</td>
<td>&lt; 10</td>
<td>5 ppm</td>
</tr>
<tr>
<td>Isopropanol (CAS 78-92-5)</td>
<td>&lt; 10</td>
<td>400 ppm</td>
</tr>
<tr>
<td>Nitric acid (CAS 7697-37-2)</td>
<td>&lt; 2</td>
<td>1 mg/m³</td>
</tr>
<tr>
<td>Sodium nitrate (CAS 16472-7)</td>
<td>&lt; 5</td>
<td>non-listed</td>
</tr>
</tbody>
</table>

III. PHYSICAL DATA

Boiling Point (F): 225°F
Specific Gravity (Water = 1): 1.152

Volatile By Weight (%): 80
Weight Per Gallon (Pounds): 9.6

Solubility In Water: Complete
pH: < 1.0

Appearance & Odor: A clear, green liquid, with a mint odor.

IV. FIRE & EXPLOSION HAZARD DATA

Flashpoint (°F) (Method Used): None to 200°F

Extinguishing Media: N/A

Avoid possible exposure to hydrogen chloride vapor

Special Fire Fighting Procedures:

Unusual Fire & Explosion Hazards: Acid will attack most metals with the evolution of hydrogen.

V. HEALTH HAZARD DATA

Routes of Exposure: Direct skin and eye contact, ingestion,

Effects of Overexposure: Inhalation, skin absorption of isopropanol. Acute: May be fatal if swallowed. Skin and eye contact, and breathing of vapors may produce chemical burns.

Chronic: No chronic effects expected.

FIRST AID PROCEDURES

If Swallowed: Prompt first aid and treatment is essential if contact occurs. Call a physician immediately! Drink large volumes of water to dilute acid. Do not attempt to make person vomit.

If Inhaled: Remove person to fresh air. Contact a physician.

If In Eyes: Flush eyes immediately with plenty of cool water for at least 15 minutes. Seek prompt medical attention. Contact lenses should not be worn when working with this product.

If On Skin: Wipe off gently. Immediately flood surface with water, using soap freely, then cover with moist magnesium or baking soda. Seek medical attention.

Health and Safety Information: (216)861-7114
VI. REACTIVITY DATA
Stability: Stable

Conditions To Avoid: Extremely high temps. Do not mix with other chemicals.

INCOMPATIBILITY (Materials To Avoid): Metals and strong alkali

Hazardous Decomposition Products: Burning this product may produce hydrogen, carbon dioxide and oxides of phosphorus.

HAZARDOUS POLYMERIZATION WILL NOT OCCUR

VII. SPILL OR LEAK PROCEDURES
Steps To Be Taken If Material Is Released Or Spilled: Ventilate area

Wearing gloves, wipe off excess liquid with rags or oil absorbent. Dispose of in chemical receptacle or dilute with water and neutralize.

Waste Disposal Methods: Follow all Federal, State and local regarding waste disposal. Large quantities must be disposed of as a hazardous waste because pH is less than 2.5.

Follow all Federal, State and Local Regulations Regarding Waste Disposal

VIII. SPECIAL PROTECTION INFORMATION
Eye protection and protective gloves are recommended any time you work with any concentrated industrial strength cleaning products.

No special protection needed under normal use conditions. If needed to stay below TLV use respirator fitted with acid (hydrochloric) cartridges.

Ventilation: Use in ventilated areas.

Protective Gloves: Neoprene

Eye Protection: Safety glasses required.

Other Protective Equipment: A source of clean water should be nearby in case of accidental eye contact.

IX. SPECIAL PRECAUTIONS
Precautions To Be Taken In Handling Storage

Keep containers tightly closed. Keep from freezing. WARNING: Corrosive. Contains acid. May be fatal if swallowed. Do not breathe vapor or fumes. Do not get in eyes, on skin or clothing. May produce chemical burns. Do not use in, or allow to splash on animal or guaranteed acid-resistant metal. Empty containers and rinse with water before disposing. Do not mix with any other chemicals. Avoid splashing on nylon or cotton.

Other Precautions
Read and follow all label directions and precautions before using the product. These products are intended for industrial and institutional use only.

FOR INDUSTRIAL USE ONLY.

KEEP OUT OF THE REACH OF CHILDREN.

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December, 1985