

Toilet Bowl Cleaner

MATERIAL SAFETY DATA SHEET

IDENTIFICATION Formulated toilet.
 Name Li'l Brother Sam Type bowl cleaner
 D.O.T. Compound Cleaning Liquid
 Shipping Name: (containing hydrochloric acid)
 Hazard Class: Corrosive Material
 ID No. NA 1789 Label Corrosive

II. HAZARDOUS INGREDIENTS

Material	Weight %	TLV
Phosphoric acid (CAS# 7664-38-2)	< 15	1 mg/m ³
Hydrochloric acid (CAS# 7647-01-0)	< 10	5 ppm
Isopropanol (skin) (CAS# 76-03-0)	< 10	400 ppm
Oxalic acid (CAS# 144-62-7)	< 2	1 mg/m ³
Toluene sulfonic acid (CAS# 104-15-4)	< 5	none listed

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, 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

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 Swallowed: _____
 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 magnesia 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 absorbant. Dispose of in chemical receptacle or dilute with water and neutralize.

Waste Disposal Method 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

Respiratory Protection 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 enamel 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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