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MATERIAL SAFETY DATA SHEET

MANUFACTURER: K & K Chemical Co.
TELEPHONE NO.: (800) 327-0646
ADDRESS: 1303 Industrial Drive, Royse City, TX 75189

PRODUCT: BRIGHT BOWL & URINAL CLEANER™
PART NUMBER(S): K-473
MSDS Prepared By: J. Austin Maglothin, Ph.D.
Revision Date: April 28, 1997

SECTION I - GENERAL

Chemical Name & Synonym: None
Trade Name & Synonyms: BRIGHT BOWL & URINAL CLEANER™
Chemical Family: Aqueous solution
Formula: Trade secret

SECTION II - HAZARDOUS INGREDIENTS

Hydrogen chloride 25% CAS No. 7647-01-0

SECTION III - PHYSICAL AND CHEMICAL DATA

Boiling Point (°C): Not determined
Vapor Pressure (MM Hg @ 20°C): Not applicable
Vapor Density (Air = 1): Not applicable
Specific Gravity (H₂O = 1): 1.05
% Volatile by Volume: Not determined
Evaporation Rate (H₂O = 1): Not determined
Solubility in Water: Miscible
Appearance and Odor: Green fluid with sassafras fragrance
Others: None

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammable Limits (%):
- LEL: Not applicable
- UEL: Not applicable
Flash Point (Method Used): Not applicable
Extinguishing Media: Material is non-flammable. Use any media suitable for surrounding fire.
Special Fire Fighting Procedures: None.
Unusual Fire & Explosion Hazards: Contact with metals may produce flammable hydrogen gas.

SECTION V - HEALTH HAZARD DATA

Route of Entry: Ingestion, skin absorption, eye contact.
Carcinogenic Assessment: Not listed
Threshold Limit Value: Not applicable
Effects of Overexposure: Eye contact: Irritation, severe burns and permanent damage including blindness
Skin contact: Burning, irritation, dermatitis.
Ingestion: Unlikely route - causes severe burns to internal organs
Eye contact: Wash eyes with water for 15 minutes. Get medical attention.
Skin contact: Remove contaminated clothing. Wash skin with water for 15 minutes. Get medical attention if irritation persists.
Ingestion: DO NOT INDUCE VOMITING. Drink 3 or 4 glasses of water, followed by beaten eggs, vegetable oil or Milk of Magnesia. Get medical attention immediately.

SECTION VI - REACTIVITY DATA

Stability: Stable
Incompatibility (Materials to Avoid): Bases and metals. Contact with strong bases (alkali) can cause violent reaction generating heat. Reacts with some metals to generate flammable hydrogen gas.
Hazardous Decomposition Products: Hydrogen chloride gas
Hazardous Polymerization: Will not occur

SECTION VII - SPILL OR LEAK PROCEDURE

Steps To Be Taken In Case Material Is Released Or Spilled: Neutralize with baking soda. Wash away with large volumes of water.
Waste Disposal Method: Neutralized material may be washed down the sewer. Rinse empty container well before discarding in an authorized landfill.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Respiratory Protection: None required
Ventilation: Use in a well ventilated area
Protective Gloves: Latex or vinyl
Eye Protection: Safety glasses or goggles
Other Protective Equipment: None

SECTION IX - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Store in original container for up to 1 year. Do not store with strong bases (alkali). Keep away from heat.
Other Precautions: Keep out of reach of children. Read and follow label directions.