

MATERIAL SAFETY DATA SHEET

SECTION 1: PRODUCT IDENTIFICATION

Product Name: **AC-23**

Product Use: Toilet bowl & urinal cleaner

W HMIS Class: E, D1A

TDG Classification: Class 8

PIN Number: UN 1789, group II

T.D.G. Shipping Name: Hydrochloric acid. LIMITED QUANTITY for 12 x 1L.

Manufacturer:

Chemotec (PM) Inc.

8820 Place Ray Lawson

Anjou, Québec, Canada H1J 1Z2

Telephone: (514) 729-6321; 1-800-729-6321

Emergency Phone: as above or call **CANUTEC** (613) 996-6666 in case of **chemical emergency only.**

SECTION 2: HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>Wt %</u>	<u>TLV</u>	<u>LC₅₀</u>	<u>LD₅₀</u>
Hydrochloric acid	7647-01-0	10-30	5 ppm	n/a	900 mg/kg (oral, rabbit)

SECTION 3: PHYSICAL DATA

Boiling Point (°C): 105 °C

Vapor Pressure (mm Hg): 100 @ 20°C

Vapor Density (Air = 1): 1.268

Solubility in Water: Complete

Physical State: Liquid (opaque)

Appearance and Odor: opaque liquid, pungent.

Specific Gravity (H₂O = 1): 1.115 at 25 °C

% Volatile (Wt %): 100

Evaporation Rate (Water = 1): n/a

pH (as supplied): < 1

Viscosity: <1000 cps at 20 °C

Odor Threshold (ppm): n/a

SECTION 4: FIRE AND EXPLOSION DATA

Flammability: Non flammable, non combustible.

Flash Point (TCC, °C): > 93.3

LEL: Not applicable

UEL: Not applicable

Hazardous Combustion Products: hydrogen chloride and chlorine two toxic gases, may also produce hydrogen an explosive gas.

Autoignition Temperature (°C): Not applicable.

Means of Extinction: Foam, dry chemicals, CO₂, water.

Special Fire Hazards: See under hazardous combustion products. Container may rupture if exposed to high temperatures.

SECTION 5: REACTIVITY DATA

Conditions for Chemical Instability: This product is stable under normal conditions. It does not polymerize.

Incompatible Materials: Extremely reactive or incompatible with metals, alkalis, halogenated compounds, amines, cyanides, sulfides, sulfites, formaldehyde. Slightly reactive with moisture. Avoid direct sunlight.

Reactivity and Under What Conditions: If strongly heated or if contact with incompatible substances, the product decomposes and forms toxic or flammable gases.

Hazardous Decomposition Products: hydrogen chloride and chlorine two toxic gases, may also produce hydrogen an explosive gas.

SECTION 6: TOXICOLOGICAL PROPERTIES

Route of Entry: Eyes, skin, ingestion, inhalation.

EFFECTS OF ACUTE EXPOSURE:

Eye: Vapor or mist may cause irritation and severe burns. Contact with liquid is corrosive to the eyes and causes severe burns. May cause painful sensitization to light. May cause irreversible eye injury.

Skin: May be absorbed through the skin in harmful amounts. Contact with liquid is corrosive and causes severe burns and ulceration.

Ingestion: May cause circulatory system failure. Causes severe digestive tract burns with abdominal pain, vomiting, and possible death. May cause corrosion and permanent tissue destruction of the esophagus and digestive tract.

Inhalation: May cause severe irritation of the respiratory tract with sore throat, coughing, shortness of breath and delayed lung edema. Causes chemical burns to the respiratory tract. Exposure to the mist and vapor may erode exposed teeth. Causes corrosive action on the mucous membranes.

EFFECTS OF CHRONIC EXPOSURE:

Irritancy: Prolonged or repeated skin contact may cause dermatitis. Repeated exposure may cause erosion of teeth. Prolonged exposure may cause conjunctivitis and possible blindness.

Skin Sensitization: Prolonged exposure may cause conjunctivitis, photosensitization

Carcinogenicity: Unknown.

Teratogenicity: Unknown.

Mutagenicity: May cause fetal effects. Laboratory experiments have resulted in mutagenic effects.

Synergistic Materials: Unknown.

SECTION 7: PREVENTATIVE MEASURES

Gloves: Plastic or rubber gloves.

Eye Protection: Safety glasses with side shields.

Respiratory Protection: Not required, if adequate ventilation is available.

Other Protective Equipment: Waterproof boots and apron in case of a large spill.

Engineering Controls: Shower and eye wash station. Provide adequate ventilation.

Leak and Spill Procedure: Wear personal protective equipment. Stop the leak. Absorb the product with inert absorbent and place it in a tightly closed container for destruction.

Waste Disposal: In accordance with regional, provincial and federal regulations.

Storage Requirements: Keep in original tightly closed containers, in a well ventilated room, sheltered from any source of incompatible substances. Avoid freezing.

SECTION 8: FIRST AID

Eye: Get medical aid immediately. Do NOT allow victim to rub eyes or keep eyes closed. Extensive irrigation with water is required (at least 30 minutes). **SPEEDY ACTION IS CRITICAL!**

Skin: Get medical aid immediately. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Destroy contaminated shoes.

Inhalation: Get medical aid immediately. Remove from exposure and move to fresh air immediately. If breathing is difficult, give oxygen. Do NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask..

Ingestion: Do not induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately. Give milk of magnesia.

Notes to Physician: Do NOT use sodium bicarbonate in an attempt to neutralize the acid.

SECTION 9: PREPARATION INFORMATION

Date: 2008-11-18
Phone: (514) 729-6321

Prepared by:
Chemotec (PM) Inc.

Abbreviation :
n/a : not available

Disclaimer:

Information for this material safety data sheet was obtained from sources considered technically accurate and reliable. While every effort has been made to ensure full disclosure of product hazards, in some cases data is not available and is so stated. Since conditions of actual product use are beyond control of the supplier, it is assumed that users of this material have been fully trained according to the mandatory requirements of WHMIS. No warranty, expressed or implied, is made and supplier will not be liable for any losses, injuries or consequential damages which may result from the use of or reliance on any information contained in this form. If user requires independent information on ingredients in this or any other material, we recommend contact with the Canadian Center for Occupational Health and Safety (CCOHS) in Hamilton, Ontario (1-800-263-8276) or CSST in Montreal (514-873-3990).