

MATERIAL SAFETY DATA SHEET
SECTION I – MATERIAL IDENTIFICATION AND USE

MATERIAL NAME: PORCELAIN BOWL CLEANER

MANUFACTURERS NAME:

CP INDUSTRIES LTD.
225 BLACK STREET
FERGUS, ONTARIO N1M 1A5

EMERGENCY TELEPHONE NUMBER: (613) 996-6666
Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

SUPPLIERS NAME:

QUALITY CHEMICALS
215 DOLOMITE DRIVE
DOWNSVIEW, ONTARIO M3J 2N1

EMERGENCY TELEPHONE NUMBER: (613) 996-6666
Non-Office Hours, Weekends, or Holidays – (CANUTEC) Call Collect

CHEMICAL NAME

Hydrochloric Acid Solution

MOLECULAR WEIGHT

Not Applicable

CHEMICAL FAMILY

Mineral Acid

TRADE NAME AND SYNONYMS

Not Available

CHEMICAL FORMULA

Not Applicable

MATERIAL USE

Toilet Bowl Cleaner

WHMIS CLASS

Not Controlled (Consumer Product)

SECTION II – HAZARDOUS INGREDIENTS OF MATERIAL

HAZARDOUS INGREDIENTS	APPROXIMATE CONCENTRATION %	C.A.S.N.A.	“EXPOSURE LIMITS”	LD50 / LC50 SPECIFY SPECIES & ROUTE
Hydrogen Chloride	10 - 30	007647-01-0	TLV (ACGIH) 5 ppm ceiling	Hydrochloric Acid: LD50 Not Determined LC50 3124 ppm for 1 hour (inhalation/rat)

SECTION III – PHYSICAL DATA FOR MATERIAL

PHYSICAL STATE

GAS LIQUID X SOLID

VAPOUR PRESSURE (mm)

Not Available

FREEZING POINT (°C)

-10°C approx.

COEFFICIENT OF WATER/OIL DISTRIBUTION: Not Available

ODOUR AND APPEARANCE

Opaque Liquid, Pungent Odour

VAPOUR DENSITY (Air=1)

Not Available

SOLUBILITY IN WATER

Soluble

ODOUR THRESHOLD

Not Available

EVAPORATION RATE

Not Available

% VOLATILE (by volume)

99% (approx.)

SPECIFIC GRAVITY

1.11

BOILING POINT (°C)

Not Available

pH

(1% solution) 1.5

SECTION IV – FIRE AND EXPLOSION DATA

FLAMMABILITY IF YES, UNDER WHAT CONDITIONS

YES NO X

MEANS OF EXTINCTION: None Required. Not Flammable.

SPECIAL PROCEDURES: Hydrochloric acid itself is non-flammable. There is, however, a latent fire or explosion hazard due to hydrogen gas generated when acid is in contact with metals.

FLASH POINT (°C) AND METHOD: None

AUTO IGNITION TEMPERATURE (°C): Not Applicable

UPPER EXPLOSION LIMIT (% BY VOLUME): Not Applicable

LOWER EXPLOSION LIMIT (% BY VOLUME): Not Applicable

HAZARDOUS COMBUSTION PRODUCTS: Toxic and corrosive HCL gas may be released.

EXPLOSION DATA SENSITIVITY TO MECHANICAL IMPACT: Not Applicable

RATE OF BURNING

Not Applicable

EXPLOSIVE POWER

Not Applicable

SENSITIVITY TO STATIC DISCHARGE

Not Applicable

SECTION V – REACTIVITY DATA

CHEMICAL STABILITY IF NO, UNDER WHAT CONDITIONS?

YES X NO

INCOMPATIBILITY TO OTHER SUBSTANCES

YES X NO

REACTIVITY AND UNDER WHAT CONDITIONS:

IF SO, WHICH ONES?

Alkalis, metals, oxidizing materials.

Contact with alkalis will generate heat. Contact with most metals will generate hydrogen gas. Contact with chlorinated materials will generate toxic chlorine gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

See above

MATERIAL NAME: PORCELAINE BOWL CLEANER

SECTION VI – TOXICOLOGICAL PROPERTIES OF PRODUCT

ROUTE OF ENTRY

SKIN CONTACT: X	SKIN ABSORPTION:	EYE CONTACT: X
INHALATION ACUTE: X	INHALATION CHRONIC: X	INGESTION: X

EFFECTS OF ACUTE EXPOSURE TO PRODUCT

EYE: CORROSIVE. Contact may cause pain, lachrymation (tears), and severe irritation with corneal injury, may even cause blindness.

SKIN: CORROSIVE. Short single skin exposure may cause burns.

INHALATION: CORROSIVE. Excessive vapour concentrations inhaled may cause serious adverse effects, even death.

INGESTION: CORROSIVE. May cause burns of the mouth and throat and gastro intestinal irritation and ulceration.

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT: Repeated excessive exposure may cause erosion of teeth and bleeding and ulceration of nose, mouth and gums. Did not cause cancer in long term animal studies.

LD50 OF PRODUCT (SPECIFY SPECIES & ROUTE) Not Determined	IRRITANCY OF PRODUCT High	EXPOSURE LIMITS OF PRODUCT ACGIH TLV 5 ppm Ceiling
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LC50 OF PRODUCT (SPECIFY SPECIES) Hydrochloric Acid: 3124 ppm for 1 hr (inhal/rat)	SENSITIZATION TO PRODUCT High	SYNERGISTIC MATERIALS None Known
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CARCINOGENICITY Not Applicable	REPRODUCTIVE EFFECTS Not Available	TERATOGENICITY Not Available	MUTAGENICITY Not Available
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SECTION VII – PREVENTATIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT

GLOVES Neoprene, Rubber or PVC	RESPIRATORY (SPECIFY) Approved air purity respirator if exposure guidelines or comfort levels may be exceeded.	EYE (SPECIFY) Chemical Goggles
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FOOTWEAR (SPECIFY) Rubber Boots	CLOTHING (SPECIFY) Apron	OTHER (SPECIFY) Not Applicable
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ENGINEERING CONTROLS (E.G. VENTILATION, ENCLOSED PROCESS, (SPECIFY): Local mechanical exhaust ventilation to control airborne contamination below exposure levels.

LEAK AND SPILL PROCEDURE: Ventilated area. Do not allow spilled material to go to drain. Contain leak or spill, soak up with sand, ashes, or gravel. Dispose of in covered polyethylene containers.

WASTE DISPOSAL: Dispose of according to local, provincial, and federal regulations.

HANDLING PROCEDURES & EQUIPMENT: Use only with adequate ventilation. Avoid eye and skin contact. Avoid breathing vapours.

STORAGE REQUIREMENTS: Store in a cool, dry place in a closed container away from heat, metals and oxidizers.

SPECIAL SHIPPING INFORMATION: Not Applicable.

SECTION VIII – FIRST AID PROCEDURES

SKIN: Immediate, continued and thorough washing in flowing water for 30 minutes is imperative while removing contaminated clothing. Seek medical attention immediately.

EYE: Immediate and continuous irrigation with flowing water for at least 30 minutes is imperative. Prompt medical attention is essential.

INHALATION: Remove patient to fresh air if effects occur. Seek medical attention immediately.

INGESTION: DO NOT induce vomiting. Give large amounts of water or milk if available. Do not give anything by mouth to an unconscious patient. Seek medical attention immediately.

GENERAL ADVICE: Safety shower and eyewash must be readily available. CORROSIVE. MAY CAUSE STRICTURE. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND ESOPHAGOSCOPIC CONTROL. IF BURN IS PRESENT, TREAT AS ANY THERMAL BURN, AFTER DECONTAMINATION.

SECTION IX – PREPARATION DATE OF MSDS

ADDITIONAL INFORMATION/COMMENTS: None

SOURCES USED: Supplier MSDS

PREPARED BY: CP INDUSTRIES LTD. **PHONE NUMBER:** (519) 843-6300 **DATE:** March 3, 2004