




G.K. Chemical Specialties Co. Inc.  
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## SAFETY DATA SHEET (SDS)

<b>PRODUCT NAME: G-50 TOILET BOWL CLEANER</b>	
<b>HEALTH HAZARD RATING:</b>	(3)- HIGH HAZARD NFPA Rating
<b>FLAMMABILITY HAZARD RATING:</b>	(0)- MINIMAL HAZARD
<b>REACTIVITY HAZARD RATING:</b>	(1)- LOW HAZARD
<b>PERSONAL PROTECTION:</b>	H - (Splash goggles, Gloves, Synthetic apron, Vapor respirator)
<b>HAZARD ALERT SIGN:</b>	

<b>SECTION 1 – IDENTIFICATION</b>	
<b>PRODUCT IDENTIFIER</b>	
<b>PRODUCT NAME</b>	G-50 TOILET BOWL CLEANER
<b>MANUFACTURER'S NAME AND ADDRESS</b> <b>EMERGENCY PHONE NO.</b>	G.K. Chemical Specialties Co. Inc. 90 Barbados Blvd. Scarborough, Ontario M1J 1K9 (416) 261-7182 / 905 427-7605/ 416-526-4037
<b>SUPPLIER'S NAME AND ADDRESS</b> <b>EMERGENCY PHONE NO.</b>	
<b>CHEMICAL NAME</b>	HYDROCHLORIC ACID SOLUTION
<b>CHEMICAL FAMILY</b>	INORGANIC ACID (Hydrochloric Acid solution)
<b>TRADE NAME AND SYNONYMS</b>	G-50 TOILET BOWL CLEANER 23 %
<b>MATERIAL USE</b>	COMMERCIAL AND INDUSTRIAL CLEANING

G.K. Chemical Specialties Co. Inc. has compiled the information and recommendations contained in this Safety Data Sheet from sources believed to be reliable and to represent the most reasonable current opinion on the subject when the SDS was prepared. Although reasonable precautions have been taken in the preparation of the data contained herein, it is offered solely for your information, consideration and investigation.

G.K. Chemical Specialties Co. Inc. extends no warranty and assumes no responsibility as to the accuracy of the content or sufficiency of the information and expressly disclaims all liability for reliance thereon. This SDS provides guidelines for the safe handling of this product. It does not and cannot advise on all possible situations, therefore, your specific use of this product should be evaluated to determine if additional precautions are required. Individuals exposed to this product should read and understand this information and be provided pertinent training prior to working with this product.

G.K. Chemical Specialties Co. Inc. assumes no responsibility for personal injury or property damage to vendors, users or third parties caused by the material. Such vendors or users assume all risks associated with the use of the material.

INGREDIENTS. This SDS, under section of Ingredients, contains all ingredients listed under INGREDIENT DISCLOSURE LIST P.C. 1987-2719, 20/1/88 CANADA GAZETTE PART II VOL. 122, No 2 of HAZARDOUS PRODUCT ACT.

Percentage range of concentration of ingredients is expressed as percentage by weight of the total weight of the product. Ingredient List does not necessarily list all ingredients in the formulation and does not necessarily list all ingredient range of concentration, other than ingredients under the Disclosure List.

T.L.V. (units) or Threshold Limit Values refer to the limiting concentrations recommended by the Ministry of Labour. These values were adopted by the American Conference of Governmental Industrial Hygienists (A.C.G.I.H.). The figures refer to time-weighted average concentrations as P.P.M. (V/V) or mg/m<sup>3</sup> for a normal working day or at any time for some materials.

“C.A.S REG. No.” means the identification number assigned to a chemical substance by the Chemical Abstracts Service Division of the American Chemical Society.

“LC 50” means the concentration of a substance in air that when administered by means of inhalation over a specified length of time in an animal assay, is expected to cause the death of 50 per cent of a defined animal population.

“LD 50” means the single dose of a substance that, when administered by a defined route in an animal assay, is expected to cause death of 50 per cent of a defined animal population.

FLASH POINT. The minimum temperature at which a substance gives off flammable vapors which in contact with spark or flame will ignite.

NIOSH- National institute for occupational safety and health

STEL- Short term exposure limit

TWA- Time-weighted average

PEL- Permissible exposure limit

ACGIH- American conference of governmental industrial hygienist

OSHA- Occupational safety and health act

**SECTION 2 – HAZARD IDENTIFICATION**

Dangerous Goods: **WHMIS:** Hazard Class D. DIV. 2A AND 2B, CLASS E

**GHS CLASSIFICATION**

Acute Toxicity (inhalation-Dust/Mists) – Category 1  
 Acute Toxicity (oral, dermal) – Category 4  
 Eye Damage/ Irritation –Category 1  
 Skin Corrosion/Irritation – Category 1, Category 1A  
 Respiratory Sensitization – Category 2  
 Specific Target Organ Toxicity (Repeated Exposure) – Category 3  
 Specific Target Organ Toxicity (single exposure) – Category 3  
 Toxic to the Aquatic Environment- Acute Hazard – Category 1  
 Metal Corrosion- Category 1

**HAZARDOUS SUBSTANCE (HSNO) CLASSIFICATION**

Toxic liquid Class D, DIV 2A AND 2B  
 Corrosive liquid Class E



GHS Label Elements, including precautionary statements: Hazard Statements:

**Signal word- DANGER**

**HAZARD STATEMENTS**

H314: Causes severe skin burns and eye damage, H318: Causes serious eye damage  
 H335: May cause respiratory irritation, H302: Harmful if swallowed  
 H330: Fatal if inhaled, H370: Causes damage to organs  
 H290: May be corrosive to metals



**PREVENTION**

P261- Avoid breathing dust/fumes/gas/mist/vapors/spray  
 P280: Wear protective gloves/ protective clothing/ eye protection/ face protection  
 P405: Store locked up  
 P403 + P233: Store in a well- ventilated place. Keep containers tightly closed



**RESPONSE**

P305+P351+P338- IF IN EYES: Rinse cautiously with water for several minutes: Remove contact lenses if present and easy to do so. Continue rinsing.  
 P301 + P310: If swallowed: Immediately call a POISON CENTER or doctor/ physician.  
 P301 + P330 + P331” IF SWALLOWED: Rinse mouth. Do NOT induce vomiting  
 P304 +P340 + P310: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician  
 P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water. Shower

**POTENTIAL HEALTH EFFECTS**

**INHALATION:** May be harmful if inhaled. Causes respiratory tract irritation.  
**SKIN:** Causes skin irritation and/ or chemical burns.  
**EYE:** Will cause serious damage  
**INGESTION:** May be fatal if swallowed

H400: Very toxic to aquatic life  
 P273: Avoid release to the environment

<b>SECTION 3 – COMPOSITION/INFORMATION ON INGREDIENTS</b>				
<b>HAZARDOUS INGREDIENTS</b>	<b>APPROXIMATE CONCENTRATION%</b>	<b>C.A.S., N.A. OR U.N. NUMBERS</b>	<b>LD50 {SPECIFY SPECIES &amp; ROUTE}</b>	<b>LC 50 {SPECIFY SPECIES &amp; ROUTE}</b>
Hydrochloric acid	23 % by weight	7647-01-0	Oral(Rat): 700 mg/kg	Lethal Concentration: 3124 ppm (Rat) 1 h
Ethoxylated Lauryl Alcohol	< 1 %	9002-92-0	Dermal (Rabbit): 5010mg/kg. for HCL ACGIH TLV= 5 ppm (7.59 mg/m <sup>3</sup> for HCL	
Water, inert	Balance		NIOSH IDLH= 50 ppm (as HCL)	

<b>SECTION 4 – FIRST AID MEASURES</b>	
<b>SKIN CONTACT</b>	Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and wash using soap. Get medical attention if necessary.
<b>EYE CONTACT</b>	Immediately hold eyelids open and flush with water for at least 15 minutes. Seek medical attention.
<b>INHALATION</b>	Move casualty to fresh air and keep at rest. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Get medical attention if necessary
<b>INGESTION</b>	Harmful if swallowed. Do not induce vomiting. Drink 1 or 2 glasses of water. Seek immediate medical attention. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.
<b>NOTES TO PHYSICIAN</b>	Product is corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with frothy sputum, and high pulse pressure. Treat symptomatically

<b>SECTION 5 – FIRE-FIGHTING MEASURES</b>	
<b>FLASH POINT ( °C)</b>	Nil
<b>FLASH POINT METHOD</b>	Not applicable
<b>AUTOIGNITION TEMPERATURE ( °C )</b>	Non-combustible
<b>UPPER FLAMMABLE LIMIT ( % VOL.)</b>	Not applicable
<b>LOWER FLAMMABLE LIMIT ( % VOL. )</b>	Not applicable
<b>HAZARDOUS COMBUSTION PRODUCTS</b>	Not applicable
<b>UNUSUAL FIRE/ EXPLOSION HAZARDS</b>	Releases flammable hydrogen gas when reacting with metals
<b>SENSITIVITY TO MECHANICAL IMPACT</b>	No.
<b>SENSITIVITY TO STATIC DISCHARGE</b>	No
<b>EXTINGUISHING MEDIA</b>	Use extinguishing agents compatible with acid and appropriate for the burning material. Use water spray to keep fire-exposed containers cool
<b>SPECIAL FIRE FIGHTING PROCEDURES</b>	Fire fighters should wear full protective clothing, including self-contained breathing equipment. The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. To neutralize this product use Soda ash or slaked lime.

<b>SECTION 6 – ACCIDENTAL RELEASE MEASURES</b>	
<b>LEAK AND SPILL PROCEDURE</b>	Stop leak. Move containers from spill area. Absorb spill with vermiculite absorbent material, neutralize the residue with a dilute solution of Sodium Carbonate, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. <b>LARGE SPILL:</b> Corrosive liquid. Stop leak if without risk. Do not touch spilled material. Use water spray curtain to knock down vapor drift. Neutralize the residue. Be careful that vapor is not present at a concentration level above TLV
<b>ENVIRONMENTAL PRECAUTIONARY</b>	Prevent entry into sewers or streams. Any release to the environment should be subject to federal or local reporting requirements.
<b>PERSONAL PRECAUTIONARY MEASURES</b>	Wear protective clothing during cleanup. See section 8 for recommendations on the use of personal protective equipment. Avoid breathing vapors, mist or gas. Avoid contact with clothing and skin

<b>SECTION 7 – HANDLING AND STORAGE</b>	
<b>HANDLING PROCETURES</b>	Avoid contact with eyes. Avoid ingestion. Use good industrial hygiene practices in handling this product. Keep container closed when not in use. Use only with adequate ventilation
<b>STORAGE NEEDS</b>	Keep container tightly closed. Store in a cool area. Keep out of the reach of children. Keep in properly labeled containers

<b>SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
<b>VENTILATION REQUIREMENTS</b>	Good ventilation is recommended. When TLV (Threshold Limit Value over 8 hours of work) is greater than 5 ppm (7.59 mg/ m <sup>3</sup> ) provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective. NIOSH IDLH= 50 ppm, (as HCL)
<b>PROTECTIVE EQUIPMENT</b>	Ensure that eyewash stations are proximal to the work-station location. The selection of personal protective equipment will vary depending on the condition of use
<b>EYE/TYPE</b>	Splash goggles
<b>RESPIRATORY/TYPE</b>	Approved/ certified vapor respirator when airborne concentration exceed exposure limits.
<b>GLOVE/TYPE</b>	Nitrile, Vinyl, Butyl impervious gloves
<b>FOOTWEAR/TYPE</b>	Boots. Chemical resistant and as specified by the workplace
<b>BODY/TYPE</b>	Protective clothing is required. Use impervious clothing (apron, coveralls). The selection of personal protective equipment will vary depending on the conditions of use.

<b>SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES</b>	
<b>APPEARANCE – PHYSICAL STATE</b>	Slightly milky, thin liquid
<b>ODOUR</b>	Strong pungent, irritating
<b>ODOUR THRESHOLD (PPM)</b>	1-5 PPM detection
<b>PH</b>	<1, strong acid

MELTING POINT ( °C)	See freezing point
BOILING POINT ( °C )	>100°C (212° F) INITIAL
FREEZING POINT ( °C )	-30°C (-22° F)
EVAPORATION RATE	>1.00 (n-Butyl Acetate)
FLAMMABILITY	Not combustible
FLASH POINT ( °C)	Not applicable
AUTO IGNITION TEMPERATURE	Not available
DECOMPOSITION TEMPERATURE	Not available
VAPOUR DENSITY	(air= 1) 1.267 @ 20°C
VAPOUR PRESSURE	@ 20°C 84 mmHg
SOLUBILITY	Completely soluble in water
VISCOSITY	Thin liquid
% VOLATILE BY VOLUME	Not available
SPECIFIC GRAVITY	1.13 ± 0.02 gm / cm <sup>3</sup> @ 20°C

SECTION 10 – STABILITY AND REACTIVITY	
REACTIVITY	Exothermic reaction with incompatible materials
CHEMICAL STABILITY	Stable under normal conditions
POSSIBILITY OF HAZARDOUS REACTIONS	Arise in contact with incompatible materials. Forms flammable and explosive Hydrogen gas through corrosion of metals.
CONDITIONS TO AVOID	Avoid incompatible materials
INCOMPATIBLE MATERIALS	Avoid contact with strong oxidizers, strong bases, metals, metal oxides, amines, carbonates other alkaline materials. Also perchlorates, nitrates, peroxides, carbides, cyanides, sulfides, permanganates, aldehydes, vinyl methyl ether and salts of oxyhalogenic acids
HAZARDOUS DECOMPOSITION PRODUCTS	Hydrogen Chloride gas, Chlorine gas, Carbon Dioxide (CO <sub>2</sub> ), Carbon monoxide.

SECTION 11 –TOXICOLOGICAL INFORMATION	
TOXICITY EFFECTS ON ANIMALS	Acute oral toxicity (LD50): 900 mg/kg (Rat), LD50 dermal (Rabbit) 5010 mg/kg, LC50-Inhalation (Rat) :3124 ppm (1 hour). Figures for Hydrochloric acid
TOXIC EFFECTS ON HUMANS	<b>Inhalation:</b> May cause chemical burns to the respiratory tract, leading to sore throat, coughing, shortness of breath and delayed lung edema. <b>Ingestion:</b> 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. <b>Skin contact:</b> May be absorbed through the skin in harmful amount. May cause skin sensitization, an allergic reaction, which becomes evident upon re-exposure to this material. Contact with liquid is corrosive and causes severe burns and ulceration <b>Eye contact:</b> May cause irreversible eye injury. Contact with liquid is corrosive to the eyes and causes severe burns.
CHRONIC EFFECTS ON HUMANS	Prolonged contact with skin may defat tissue causing dermatitis or skin problems.
CARCINOGENICITY	No evidence
TERATOGENICITY	No data available
MUTAGENICITY	No evidence
REPRODUCTIVE EFFECTS	No evidence

<b>SECTION 12 – ECOLOGICAL INFORMATION</b>	
<b>ECOTOXICITY DATA</b>	<b>Figures for Hydrochloric acid.</b> Ecotoxicity in water (LC50): 282 mg/l 96 hours Mosquito fish, EC50/48h/Bluegill: 3.6mg/L. LC50/ salt water: 100-300 ppm/48 h/ shrimp .Because of the low PH of this product, it would be expected to produce significant ecotoxicity upon exposure to organisms and aquatic system. Most aquatic species do not tolerate PH lower than 5.5 for extended period. Dangerous to aquatic life in high conc.
<b>BIODEGRADABILITY</b>	Does not bioaccumulate. Hydrochloric acid dissociates in water and lowers the PH of water. It will be neutralized by naturally occurring alkalinity in water and soil. Not biodegradable. Biological Oxygen Demand ( BOD ): None
<b>PRODUCTS OF DEGRADATION</b>	Gets neutralized to chloride by alkalinity present in natural environment.

<b>SECTION 13 – DISPOSAL CONSIDERATIONS</b>	
<b>WASTE DISPOSAL</b>	Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations
<b>INFORMATION ON SAFE HANDLING FOR DISPOSAL INCLUDING ANY CONTAMINATED PACKAGING</b>	Suitable waste facility

<b>SECTION 14 – TRANSPORT INFORMATION</b>	
<b>UN NUMBER</b>	1789
<b>UN PROPER SHIPPING NAME</b>	HYDROCHLORIC ACID (23%)
<b>TRANSPORT HAZARD CLASS</b>	CLASS: 8 (CORROSIVE)
<b>PACKAGING GROUP</b>	II
<b>ENVIRONMENTAL HAZARDS</b>	YES
<b>TRANSPORT IN BULK, if applicable</b>	NOT AVAILABLE
<b>SPECIAL PRECAUTIONS</b>	Guide to Canadian Transportation/ Emergency Response Guidebook (ERG): # 157

<b>SECTION 15 – REGULATORY INFORMATION</b>	
<b>SAFETY HEALTH &amp; ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT</b>	U.S. TSCA inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) INVENTORY List or exempt. Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL) or the Non-Domestic Substances List (NDSL) or exempt.

<b>SECTION 16 – OTHER INFORMATION</b>	
<b>PREPARED BY:</b>	Gus Kaklamanos - Chemist
<b>TELEPHONE NO.:</b>	416-261-7182
<b>DATE OF THE LATEST REVISION OF SDS:</b>	<b>May 8, 2024</b>

NOTE: A lot of the information provided in this SDS may refer to very large or special usage of the product. The basic purpose of this product is to be used as toilet bowl cleaner, where quantities stored and used at any time by various users are very small.