



### **Section 01 Identification**

Toilet Bowl Cleaner **Product Identifier** 

Other Means of Identification Not available

on Use

Product Use and Restrictions Concentrated toilet bowl cleaner for commercial use.

**Initial Supplier Identifier** ClearTech Industries Inc

> 1500 Quebec Avenue Saskatoon, SK. Canada

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Phone: 800.387.7503 Fax: 888.281.8109 www.cleartech.ca

**Prepared By** ClearTech Industries Inc. technical writer

306.664.2522 24-Hour Emergency Phone

### Section 02 Hazard Identification

**Physical Hazards** 

Corrosive to metals Category 1

**Health Hazards** 

Skin corrosion / irritation Category 1B Serious eye damage / eye Category 1

irritation

Specific target organ toxicity - Category 3

single exposure

Signal Word

Danger

**Hazard Statements** 

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

#### **Pictograms**



#### **Precautionary Statements**

Revision Date: February 09, 2021

#### **Prevention**

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Page 1 of 8

P234 Keep only in original packaging.

P260 Do not breathe vapours, fumes, or mists.

P264 Wash affected body parts thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves, protective clothing, eye protection, face protection

#### Response

P301 P330 P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 P361 P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or

P363 shower. Wash contaminated clothing before reuse.

P304 P340 P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a

POISON CENTER or doctor.

P305 P351 P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P390 Absorb spillage to prevent material damage.

#### Storage

P403 Store in a well-ventilated place.

P233 Keep container tightly closed.

P405 Store locked up.

#### **Disposal**

P501 Dispose of contents / container in accordance with all federal, provincial and / or local regulations including the Canadian Environmental Protection Act.

#### **Hazards Not Otherwise Classified**

Not available

#### Supplemental Information

Not available

# Section 03 Composition / Information on Ingredients

#### **Hazardous Ingredients:**

Chemical name Common name(s) **CAS** number Concentration (w/w%)

Hydrogen Chloride Hydrochloric Acid 7647-01-0 10-30%\*

### Section 04 First-Aid Measures

### Description of necessary first-aid measures

**Inhalation** Take precautions to ensure your own safety before attempting a rescue (wear appropriate protective equipment, use the buddy system). Remove source of exposure or move person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor. If breathing has stopped, trained personnel should begin rescue breathing or if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). Avoid mouth to mouth contact by using a barrier device. Call a POISON CENTER or doctor if you feel unwell.

Ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. If vomiting occurs naturally, lie on your side, in the recovery position.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: February 09, 2021

<sup>\*</sup>Exact concentration withheld as a trade secret.

Skin contact Avoid direct contact. Wear chemical protective clothing, if necessary. Take off immediately contaminated clothing, shoes and leather goods. Rinse skin with lukewarm, gently flowing water / shower for 30 minutes. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before re-use, or discard.

Eye contact Avoid direct contact. Wear chemical protective gloves, if necessary. Remove source of exposure or move person to fresh air. Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 30 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. Immediately call a POISON CENTER or doctor.

#### Most important symptoms and effects, both acute and delayed

Inhalation Causes severe burns to the mouth and throat (mist). May cause respiratory irritation.

Ingestion Causes burns to the mouth and throat.

Causes severe skin burns. Skin contact Eye contact Causes serious eye damage.

**Further information** For further information see Section 11 Toxicological Information.

### Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing media

Water jets are not recommended in fires involving chemicals.

Specific hazards arising from

the chemical

Reacts with many metals to liberate hydrogen gas that can form explosive mixtures. Heat may liberate corrosive and toxic Hydrogen Chloride gas. Hydrogen Chloride is denser than

air and will accumulate in low lying areas.

Special protective equipment

for fire-fighters

Wear NIOSH-approved self-contained breathing apparatus and chemical-protective

clothing.

#### Section 06 Accidental Release Measures

Personal Precautions / Protective Equipment / **Emergency Procedures**  Wear appropriate personal protective equipment (See Section 08 Exposure Controls and Personal Protection). Stay upwind, ventilate area. Do not breathe vapours, fumes, or mists.

Do not use material handling equipment with exposed metal surfaces.

**Environmental Precautions** 

Prevent material from entering waterways, sewers or confined spaces. Notify local health

and wildlife officials. Notify operators of nearby water intakes.

**Methods and Materials for Containment and Cleaning** Up

SMALL SPILLS: Stop or reduce leak if safe to do so. Clean up spill with non-reactive absorbent and place in suitable, covered, labeled containers. Flush area with water. Contaminated absorbent material may pose the same hazards as the spilled product. LARGE SPILLS: Contact fire and emergency services and supplier for advice.

# Section 07 Handling and Storage

**Precautions for Safe Handling** Use proper equipment for lifting and transporting all containers. Use sensible industrial hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations that could lead to harmful exposure. Prevent the release of vapours, fumes, or mists into the workplace air.

> Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills and leaks readily available.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: February 09, 2021 Page 3 of 8

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, out of direct sunlight, away from heat sources and

incompatible materials. Always store in original labeled container. Keep containers tightly closed when not in use and when empty. Empty containers may contain hazardous residues. Protect label and keep it visible. Do not transfer to metal containers.

Incompatibilities

Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Metals, such as aluminum, steel, and brass.

### Section 08 Exposure Controls and Personal Protection

#### **Exposure limits**

ComponentRegulationType of listingValueHydrogen ChlorideACGIHTLV-Ceiling2 ppm

**Engineering controls** 

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by

exhaust systems.

Other An emergency shower and eyewash station should be available, tested, and be in close

proximity to the product being handled in accordance with provincial regulations.

#### Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

Eye and face protection Where there is potential eye or face exposure, tightly fitting safety goggles and a face shield

or a full face respirator or similar protective equipment which protects the wearer's face and eyes are recommended. Contact lenses are not recommended; they may contribute to

severe eye injury.

Hand and body protection Disposable latex or nitrile gloves are recommended to prevent incidental contact. Butyl

rubber, neoprene, or PVC skin protection is recommended for extended contact. Leather

gloves are not recommended for chemical protection. Refer to manufacturer's

specifications for breakthrough times and permeability information; note that breakthrough times and permeability vary with temperature, application and age of material. Continued use of contaminated safety gear or clothing is not recommended; wash before reuse or

discard.

**Respiratory protection** In case of insufficient ventilation wear suitable respiratory equipment.

NIOSH respirator recommendations for: Hydrogen Chloride

Up to: 50 ppm

(APF = 10) Any chemical cartridge respirator with cartridge(s) providing protection against

Hydrogen Chloride

(APF = 10) Any supplied-air respirator

(APF = 25) Any powered, air-purifying respirator with cartridge(s) providing protection

against Hydrogen Chloride

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or

back-mounted canister providing protection against Hydrogen Chloride (APF = 50) Any self-contained breathing apparatus with a full facepiece.

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Revision Date: February 09, 2021

#### Emergency or planned entry into unknown concentrations or IDLH conditions:

(APF = 10,000) Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode

(APF = 10,000) Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained positive-pressure breathing apparatus

#### Escape:

(APF = 50) Any air-purifying, full-facepiece respirator (gas mask) with a chin-style, front- or back-mounted canister providing protection against Hydrogen Chloride

Any appropriate escape-type, self-contained breathing apparatus

Thermal hazards Not available

# Section 09 Physical and Chemical Properties

#### **Appearance**

Physical state Liquid

Colour Red, transparent

Odour Pungent
Odour threshold 1-5 ppm

**Property** 

pH <1.0 Melting point / freezing point <0 °C

Initial boiling point and

boiling range

Not available

Flash point Not applicable Not available Evaporation rate **Flammability** Not applicable Upper flammable limit Not applicable Lower flammable limit Not applicable Vapour pressure Not available Vapour density Not available Relative density Not applicable Solubility Soluble in water

octanol/water

Partition coefficient: n-

Not available

Auto-ignition temperatureNot applicableDecomposition temperatureNot availableViscosityNot available

Specific gravity ~1.08 g/mL @ 20 °C

# Section 10 Stability and Reactivity

**Reactivity** May be corrosive to metals. Reacts with many metals to liberate hydrogen gas that can

form explosive mixtures. Reacts with water to generate heat. Reacts violently with bases.

**Stability** This product is stable if stored according to the recommendations in Section 07.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Revision Date: February 09, 2021

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid

Avoid contact with incompatible materials.

Incompatible materials Bases, such as potassium hydroxide, sodium hydroxide, calcium hydroxide (slaked lime),

ammonia, carbonates.

Metals, such as aluminum, steel, and brass.

Hazardous decomposition

products

Not available

# Section 11 Toxicological Information

### Acute Toxicity (LD50 / LC50 values)

Component	Route	Species	Value	Exposure time
Acute toxicity estimate	Oral	Rat	1,500 mg/kg bw	
	Dermal	Mouse	>2,000 mg/kg bw	
	Inhalation (gas)	Mouse	>5.000 ppm	1 hour

#### **Toxic Health Effect Summary**

Chemical characteristics Hydrogen chloride rapidly dissociates and most of it's toxic effects are thought to be the result of pH

change.

Skin Causes severe skin burns.

Ingestion Causes burns to the mouth and throat.

Inhalation Causes severe burns to the mouth and throat (mist). May cause respiratory irritation. Hydrogen

chloride gas is severely irritating to all mucous membranes.

Causes serious eye damage. Eye contact

Sensitization This product and its components at their listed concentration have no known sensitizing effects. This product and its components at their listed concentration have no known mutagenic effects. Mutagenicity

Carcinogenicity IARC has classified this product or one or more of its components as group 3, not classifiable as to its

carcinogenicity to humans.

Reproductive

toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ

toxicity

Frequent contact may lead to dermatitus. Dental decay, with changes in tooth structure, yellowing, softening and breaking of teeth, and related digestive diseases are frequent after exposures to

hydrochloric acid

Aspiration hazard

Not available **Synergistic** 

Revision Date: February 09, 2021

materials

Not available

# **Section 12 Ecological Information**

#### **Ecotoxicity**

Component	Туре	Species	Value	Exposure Time
Acute toxicity estimate	LC50	Freshwater fish	>100 mg/L	96 hours
	EC50	Freshwater invertabrates	3 mg/L	48 hours
	EC50	Freshwater algae	4.8 mg/L	72 hours

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Page 6 of 8

Biodegradability The domestic substance list categorizes hydrochloric acid as persistent.

**Bioaccumulation** The domestic substance list categorizes hydrochloric acid as non-bioaccumulative.

Mobility This product is water soluble, is not predicted to adsorb to soil and may contaminate ground

water. This product will evaporate and may be spread via wind.

Other adverse effects Not available

### Section 13 Disposal Considerations

Waste From Residues / **Unused Products** 

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Do not remove label, follow label warnings even after the container is empty. Empty

containers should be recycled or disposed of at an approved waste handling facility.

### Section 14 Transport Information

**UN** number UN1789

UN proper shipping name and description

HYDROCHLORIC ACID

Transport hazard class(es) 8 Ш Packing group 5 L **Excepted quantities** 

Environmental hazards

Not listed as a marine pollutant under Canadian TDG Regulations, schedule III.

Special precautions No special provisions Transport in bulk ERAP index: Not available

MARPOL 73/78 and IBC Code:

Product name: Hydrochloric Acid

Pollution category: Z

Hazards: the product is included in the Code because of both its safety

and pollution hazards.

Ship type: ship type 3

Tank type: independent gravity tank

Tank vents: controlled venting

Tank environmental control: no special requirements under this Code

Temperature classes

Electrical equipment: Apparatus group

Flash point non-flammable product

Gauging: restricted gauging Vapour detection: toxic vapours

Fire protection: no special requirements under this Code

Emergency equipment see 14.3.1

Specific and operational 15.11

requirements

Additional information Secure containers (full or empty) during shipment and ensure all caps, valves, or closures

are secured in the closed position.

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522

Revision Date: February 09, 2021

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

### Section 15 Regulatory Information.

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

All components of this product appear on the domestic substance list.

Hydrochloric Acid (>1%) is listed in the National Pollutant Release Inventory (NPRI). Reporting threshold: 10 tonnes manufactured, processed or otherwise used.

#### Section 16 Other Information

Date of latest revision: February 09, 2021

**Note:** The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

#### Attention: Receiver of the chemical goods / SDS coordinator

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

#### References:

- 1) CHEMINFO
- 2) TOXNET
- 3) eChemPortal
- 4) ECHA
- 5) Transportation of Dangerous Goods Canada
- 6) HSDB
- 7) PAN

Customer Service: 800.387.7503 www.cleartech.ca Emergency: 306.664.2522 Revision Date: February 09, 2021 Page 8 of 8