

# VORTEX

## SECTION 1. IDENTIFICATION

<b>Product Identifier</b>	VORTEX
<b>Product Family</b>	Ready to use
<b>Recommended Use</b>	Toilet and urinal bowl cleaner.
<b>Restrictions on Use</b>	For industrial/professional use only.
<b>Manufacturer/Supplier Identifier</b>	Groupe Parall Inc. 2970 Bergman Laval, Québec, H7L 3P4 Canada 450-687-6666 or/ou 1-800-661-6660 www.parall.ca
<b>Emergency Phone No.</b>	not available

## SECTION 2. HAZARD IDENTIFICATION

Classified according to Canada's Hazardous Products Regulations (WHMIS 2015).

### Classification

Corrosive to metals - Category 1; Acute toxicity (Oral) - Category 4; Acute toxicity (Inhalation) - Category 1; Skin corrosion - Category 1; Serious eye damage - Category 1; Specific target organ toxicity (single exposure) - Category 3

### Label Elements



Signal Word:  
Danger

### Hazard Statement(s):

May be corrosive to metals.  
Causes severe skin burns and eye damage.  
Causes serious eye damage.  
Harmful if inhaled.  
Fatal if swallowed.  
May cause respiratory irritation.

### Precautionary Statement(s):

Prevention:  
Keep only in original packaging.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear protective gloves/protective clothing/eye protection/face protection.  
Wash hands and skin thoroughly after handling.

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Use only outdoors or in a well-ventilated area.

[In case of inadequate ventilation] wear respiratory protection (full facepiece NIOSH approved air-purifying respirator with an acid gas cartridge).

Do not eat, drink or smoke when using this product.

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Immediately call a POISON CENTRE or doctor.

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

Immediately call a POISON CENTRE or doctor.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

Immediately call a POISON CENTRE or doctor.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTRE or doctor.

Wash contaminated clothing before reuse.

Absorb spillage to prevent material damage.

Storage:

Store in a well-ventilated place. Keep container tightly closed.

Store in corrosive resistant container with a resistant inner liner.

Store locked up.

Disposal:

Do not reuse empty container.

Dispose of contents and container in accordance with local, regional, national and international regulations.

#### Other Hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture:

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Hydrochloric acid	7647-01-0	10-30	none	none

#### Notes

Concentrations are expressed in % weight/weight.

### SECTION 4. FIRST-AID MEASURES

#### First-aid Measures

##### Inhalation

Move to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a Poison Centre or doctor.

##### Skin Contact

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Immediately wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 15-20 minutes. Immediately call a Poison Centre or doctor.

##### Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a Poison Centre or doctor.

##### Ingestion

Rinse mouth with water. Do not induce vomiting. Immediately call a Poison Centre or doctor.

#### Most Important Symptoms and Effects, Acute and Delayed

If in eyes: contact causes severe burns with redness, swelling, pain and blurred vision. Permanent damage including blindness can result. The vapour also irritates the eyes. If on skin: may burn the skin. Permanent scarring may result. If inhaled and/or swallowed: if inhaled: can irritate the mouth, throat and stomach. If swallowed: can burn the lips, tongue, throat and stomach.

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## Immediate Medical Attention and Special Treatment

### Special Instructions

Contains around 20% of Hydrochloric acid.

## SECTION 5. FIRE-FIGHTING MEASURES

### Extinguishing Media

#### Suitable Extinguishing Media

Not combustible. Use extinguishing agent suitable for surrounding fire. Carbon dioxide, dry chemical powder.

#### Unsuitable Extinguishing Media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

### Specific Hazards Arising from the Product

May accumulate in hazardous amounts at ceilings and at the top of confined spaces, resulting in a health hazard.

### Special Protective Equipment and Precautions for Fire-fighters

Use extreme caution. Fight fire from a safe distance or a protected location.

As in any fire, wear self-contained breathing apparatus pressure-demand, NIOSH (approved or equivalent) and full protective gear.

## SECTION 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet. Increase ventilation to area or move leaking container to a well-ventilated and secure area. Do not touch damaged containers or spilled product unless wearing appropriate protective equipment.

### Environmental Precautions

It is good practice to prevent releases into the environment. Do not allow into any sewer, on the ground or into any waterway. If the spill is inside a building, prevent product from entering drains, ventilation systems and confined areas.

### Methods and Materials for Containment and Cleaning Up

Contain and soak up spill with absorbent that does not react with spilled product. Neutral absorbent. Place used absorbent into suitable, covered, labelled containers for disposal. Flush spill area.

## SECTION 7. HANDLING AND STORAGE

### Precautions for Safe Handling

Wear personal protective equipment to avoid direct contact with this chemical. Do not get in eyes, on skin or on clothing. Do not breathe in this product. Avoid generating vapours or mists.

### Conditions for Safe Storage

Store in an area that is: well-ventilated, cool, separate from incompatible materials (see Section 10: Stability and Reactivity). Out of direct sunlight and away from heat and ignition sources.

## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

Chemical Name	ACGIH® TLV®		OSHA PEL		AIHA® WEEL®	
	TWA	STEL [C]	TWA	Ceiling	8-hr TWA	Short-term TWA [C]
Hydrochloric acid		2 ppm		5 ppm		

### Appropriate Engineering Controls

General ventilation is usually adequate. Use local exhaust ventilation, if general ventilation is not adequate to control amount in the air. Provide eyewash and safety shower if contact or splash hazard exists.

### Individual Protection Measures

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### Eye/Face Protection

Wear chemical safety goggles and face shield when contact is possible.

### Skin Protection

Wear chemical protective clothing e.g. gloves, aprons, boots.

### Respiratory Protection

Not usually required when working with small quantities. Wear a full facepiece NIOSH approved air-purifying respirator with an acid gas cartridge.

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Basic Physical and Chemical Properties

Appearance	Opaque white liquid.
Odour	Pungent
Odour Threshold	0.3 ppm Causes olfactory fatigue.
pH	< 1
Melting Point/Freezing Point	Not applicable (melting); -30 °C (freezing)
Initial Boiling Point/Range	> 100 °C
Flash Point	Not applicable
Evaporation Rate	Not available
Flammability (solid, gas)	Not applicable
Upper/Lower Flammability or Explosive Limit	Not applicable (upper); Not applicable (lower)
Vapour Pressure	84 mm Hg at 20 °C
Vapour Density (air = 1)	Not applicable
Relative Density (water = 1)	1.110
Solubility	Miscible in any proportion in water; Not available (in other liquids)
Partition Coefficient, n-Octanol/Water (Log Kow)	Not applicable
Auto-ignition Temperature	Not applicable
Decomposition Temperature	Not available
Viscosity	Not available (kinematic); Not available (dynamic)
Other Information	
Not Flammable	not combustible

## SECTION 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions of use.

### Chemical Stability

Normally stable.

### Possibility of Hazardous Reactions

Hazardous polymerisation does not occur.

### Conditions to Avoid

Prolonged exposure to high temperatures. Do not mix with other chemicals. Incompatible materials.

### Incompatible Materials

Amines (e.g. triethylamine), metals (e.g. aluminum). Permanganates, bases, fluorine, hexalithium disilicide. Corrosive to: aluminum alloys, copper, iron, nickel, silver, zinc. Manganese and alloys.

### Hazardous Decomposition Products

Hydrogen chloride, chlorine, hydrogen gas.

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## SECTION 11. TOXICOLOGICAL INFORMATION

### Likely Routes of Exposure

Eye contact; skin contact; inhalation; ingestion.

### Acute Toxicity

Chemical Name	LC50	LD50 (oral)	LD50 (dermal)
Hydrochloric acid	3124 ppm (rat) (1-hour exposure)	900 mg/kg (rabbit)	5010 mg/kg (rabbit)

Oral ATEmix = 3913 mg/kg

Dermal ATEmix = 21782 mg/kg

### Skin Corrosion/Irritation

Causes severe skin burns and eye damage.

### Serious Eye Damage/Irritation

Causes serious eye damage.

### STOT (Specific Target Organ Toxicity) - Single Exposure

#### Inhalation

Vapours and mist will irritate throat and respiratory system and cause coughing.

#### Skin Absorption

Causes skin burns.

#### Ingestion

Harmful if swallowed. Ingestion may produce burns to the lips, oral cavity, upper airway, esophagus and possibly the digestive tract.

### Aspiration Hazard

No information was located.

### STOT (Specific Target Organ Toxicity) - Repeated Exposure

May cause irritation of the respiratory system. May cause respiratory tract injury.

### Respiratory and/or Skin Sensitization

No information was located.

### Carcinogenicity

Not specifically listed.

Key to Abbreviations

ACGIH® = American Conference of Governmental Industrial Hygienists.

IARC = International Agency for Research on Cancer.

NTP = National Toxicology Program.

OSHA = US Occupational Safety and Health Administration.

### Reproductive Toxicity

#### Development of Offspring

No information was located.

#### Sexual Function and Fertility

Not known to cause effects on sexual function or fertility.

### Germ Cell Mutagenicity

No information was located.

### Interactive Effects

No information was located.

### Other Information

ATE = Acute toxicity estimates.

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Calculate by Canwrite function as per purple book GHC (chapter 3.1)

## SECTION 12. ECOLOGICAL INFORMATION

Because of the low pH of this product, it would be expected produce significant Ecotoxicity upon exposure to aquatic organisms and aquatic systems.

### Persistence and Degradability

No information was located.

### Bioaccumulative Potential

No information was located.

### Mobility in Soil

No information was located.

### Other Adverse Effects

There is no information available.

## SECTION 13. DISPOSAL CONSIDERATIONS

### Disposal Methods

Do not reuse empty containers. Dispose of contents and container in accordance with local, regional, national and international regulations. Do not dump into any sewers on the ground or into any body of water.

## SECTION 14. TRANSPORT INFORMATION

Regulation	UN No.	Proper Shipping Name	Transport Hazard Class(es)	Packing Group
Canadian TDG	1760	Corrosive liquid N.O.S (Hydrochloric acid solution)	8	II

**Special Precautions** Please note: In accordance with TDG exemption 1.17 Exemption for limited quantities. Limited quantity 1L

## SECTION 15. REGULATORY INFORMATION

### Safety, Health and Environmental Regulations

#### Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by the Controlled Products Regulations.

#### Domestic Substances List (DSL) / Non-Domestic Substances List (NDSL)

Listed on the DSL.

## SECTION 16. OTHER INFORMATION

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### Key to Abbreviations

LC 50 = Létal concentration

LD 50 = Létal dose

PEL= Permissible exposure limit. (OSHA HCS limit)

TLV = Threshold Limit Value (ACGIH limit)

TWA = Time-Weighted Average

STEL [C] = Short Term Exposure Limit [ceiling]

OSHA = Occupational Safety and Health Administration (United States)

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ACGIH® - American Conference of Governmental Industrial Hygienists  
AIHA® = AIHA® Guideline Foundation  
HSDB® = Hazardous Substances Data Bank  
IARC = International Agency for Research on Cancer  
NIOSH = National Institute for Occupational Safety and Health  
NTP = National Toxicology Program  
RTECS® = Registry of Toxic Effects of Chemical Substances  
CNESST = Committee on Standards, Equity, Health and Safety at Work (Quebec)

#### References

CHEMINFO database. Canadian Centre for Occupational Health and Safety (CCOHS). NIOSH Pocket Guide database. National Institute for Occupational Safety and Health. Available from Canadian Centre for Occupational Health and Safety (CCOHS). Registry of Toxic Effects of Chemical Substances (RTECS®) database. Dassault Systèmes/BIOVIA ("BIOVIA"). Available from Canadian Centre for Occupational Health and Safety (CCOHS). CNESST site: [www.csst.qc.ca/en/prevention/reptox](http://www.csst.qc.ca/en/prevention/reptox).

#### Disclaimer

The information in this safety data sheet are, to our knowledge, according to our information and belief, accurate at the date of publication. This information is provided as a guide for the safe handling, use, processing, storage, transportation, disposal and disposal of the product, and should not be considered as any guarantee or quality standard. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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