Safety Data Sheet

acc. to SOR/2015-17 and OSHA 29 CFR Parts 1910, 1915, 1926

1 Identification

· **Product identifier**

· **Trade name:** ***POWER Liquid Bowl & Urinal Cleaner***

· **Article number:** 1695206102
· **Recommended use:** Toilet bowl and urinal cleaners
· **Restrictions on use:**
All other uses than those indicated on the product label and technical data sheet.

· **Details of the supplier of the safety data sheet:**
· **Manufacturer:**
9153-6383 QC Inc.
Quebec
J3H 5X7
· **Client Identification Number:** 195501
· **Emergency telephone number:** CANUTEC 1-613-996-6666

2 Hazard(s) identification

· **Classification of the product:**

GHS05

Met. Corr.1 H290 MAY BE CORROSIVE TO METALS.
Skin Corr. 1B H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

GHS07

Eye Irrit. 2A H319 CAUSES SERIOUS EYE IRRITATION.
STOT SE 3 H335 MAY CAUSE RESPIRATORY IRRITATION.

· **Label elements:**
· **Hazard pictograms:**

GHS05 GHS07

· **Signal word:** Danger
· **Hazard statements:**
H290 MAY BE CORROSIVE TO METALS.
H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.
H335 MAY CAUSE RESPIRATORY IRRITATION.
· **Precautionary statements:**

P260	Do not breathe dust, fume, gas, mist, vapors or spray.
P234	Keep only in original container.
P264	Wash thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.

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P280	Wear protective gloves and eye or face protection.
P303+P361+P353	IF ON SKIN OR HAIR: Remove or take off immediately all contaminated clothing. Rinse skin with water.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337+P313	IF EYE IRRITATION PERSISTS: Get medical attention.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P310	Immediately call a POISON CENTER or a doctor.
P363	Wash contaminated clothing before reuse.
P390	Absorb spillage to prevent material damage.
P405	Store locked up.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P501	Dispose of contents and container in accordance with local, regional and national regulations.

· **Classification system:**

· **NFPA ratings (scale 0 - 4):**

Health = 3
Fire = 0
Reactivity = 0

· **Hazard not otherwise classified:** None

· **Notes:** For the wording of the listed abbreviations refer to section 16.

3 Composition/information on ingredients

· **Dangerous components:**

CAS	Component	(% w/w)
7647-01-0	Hydrochloric Acid Acute Tox. 2, H300; Met. Corr.1, H290; Skin Corr. 1B, H314; STOT SE 3, H335	10-<25%

4 First-aid measures

· **General information:** Immediately remove any clothing soiled by the product.

· **After inhalation:**
In case of unconsciousness place patient stably in side position for transportation. Get medical attention.

· **After skin contact:**
Remove immediately all contaminated clothing. Rinse skin with water or shower for at least 15 minutes. Consult a doctor if skin redness and irritation persist.

· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

· **After ingestion:**
Drink copious amounts of water and provide fresh air. Immediately call a doctor. Do not induce vomiting.

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Trade name: ***POWER Liquid Bowl & Urinal Cleaner***

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· **Information for doctor:**
· **Most important symptoms and effects, both acute and delayed:**
Contact can cause pain, redness, burns, and even blistering. Burns may not be immediately painful; onset of pain may be delayed minutes to hours. Permanent damage, including blindness, can result after prolonged contact with eyes.

5 Fire-fighting measures

· **Suitable extinguishing media:**
· **Suitable extinguishing media:**
CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
· **Specific hazards arising from the product:**
In case of accidental fire and extreme heat conditions, the following gaseous products can be released after water evaporation: hydrocarbons, carbon monoxides and dioxides (COx) and nitrogen oxides (NOx).
· **Advice for firefighters:**
· **Special protective equipment and precautions for fire-fighters:** No special measures required.
· **Additional information:**
This product is not flammable.
See -Section 9- for the flammability characteristics of this product.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures:**
Wear recommended protective equipment(s). Keep unprotected persons away.
· **Environmental precautions:** Do not allow to enter sewers, surface or ground water.
· **Methods and material for containment and cleaning up:**
Surround and absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
Use neutralizing agent (eg. sodium bicarbonate).

7 Handling and storage

· **Handling:**
· **Precautions for safe handling:** Ensure good ventilation at the workplace.

· **Conditions for safe storage, including any incompatibilities:**
· **Requirements to be met by storerooms and receptacles:**
Unsuitable material for receptacle: aluminium.
Unsuitable material for receptacle: steel.
· **Information about storage in one common storage facility:** Store away from metals.
· **Conditions for safe storage, including any incompatibilities:**
Keep in the original receptacle tightly sealed.
Store under lock and key and out of the reach of children.
· **Specific end use(s):** No further relevant information available.

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8 Exposure controls/personal protection

· **Appropriate engerering controls:** Ensure appropriate aeration and ventilation.

· **Control parameters:**

· **Components with limit values that require monitoring at the workplace:**	
7647-01-0 Hydrochloric Acid	
EL (Canada)	Ceiling limit value: 2 ppm
EV (Canada)	Ceiling limit value: 2 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls:**

· **Personal protective equipment:**

Tightly sealed googles

acid resistant gloves

Protective clothing (recommanded)

Respiratory protective equipment (recommended if ventilation is insufficient)

· **General protective and hygienic measures:**
The usual precautionary measures for handling chemicals should be followed.
Immediately remove all soiled and contaminated clothing.
Wash hands before breaks and at the end of work.
Do not inhale dust, smoke, mist gases, fumes or aerosols.
Avoid contact with the eyes and skin.
Do not carry product impregnated cleaning cloths in trouser pockets.

· **Breathing equipment:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.
Not necessary if room is well-ventilated.

· **Protection of hands:**
Acid resistant gloves
The glove material has to be impermeable and resistant to the product.

· **Eye protection:** Tightly sealed goggles

· **Body protection:** Acid resistant protective clothing (recommanded)

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9 Physical and chemical properties

· **Information on basic physical and chemical properties:**	
· **General Information:**	
· **Appearance:**	
· **Form:**	Opaque Liquid
· **Colour:**	White
· **Odour:**	HCl
· **Odor threshold:**	Not determined.
· **pH-value at 25 °C:**	<1.0
· **Change in condition:**	
· **Melting point/Melting range:**	Undetermined.
· **Boiling point/Boiling range:**	100 °C
· **Flash point:**	Not determined.
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	Not determined.
· **Decomposition temperature:**	Not determined.
· **Auto igniting:**	Product is not selfigniting.
· **Danger of explosion:**	Product does not present an explosion hazard.
· **Explosion limits:**	
· **Lower:**	Not determined.
· **Upper:**	Not determined.
· **Vapour pressure at 20 °C:**	23 hPa
· **Density at 25 °C:**	1.115-1.135 g/cm³
· **Relative density**	Not determined.
· **Vapour density (air=1):**	<1 (aqueous solution)
· **Evaporation rate:**	Not determined.
· **Solubility in / Miscibility with:**	
· **Water:**	Fully miscible
· **Partition coefficient (n-octanol/water):**	Not determined.
· **Viscosity:**	
· **Dynamic:**	Not determined.
· **Solvent content:**	
· **Organic solvents:**	0.1 %

10 Stability and reactivity

· **Reactivity:** The product is acidic.
· **Chemical stability:**
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
· **Possibility of hazardous reactions:** Reacts with alkali.

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· **Conditions to avoid:** Avoid freezing and extreme heat conditions.
· **Incompatible materials:**
This product may react with strong oxidizing agents.
In contact with most metals, produces hydrogen gas, a flammable and explosive gas. It is particularly corrosive to aluminium, stainless steel, carboon steel, copper and bronze.
· **Hazardous decomposition products:**
Hydrogen
In case of decomposition: carbon monoxide and carbon dioxide and traces of volatile halogenated compounds.

11 Toxicological information

· **Information on the likely routes of exposure:** Skin and eyes contact
· **Acute toxicity:**
· **Numerical mesures of toxicity:**

· **Components** Mean of exposure	**Type**	**Value (Species)**
ATE (Acute Toxicity Estimates)		
Oral	LD50	3696 mg/kg
Inhalative	LC50 (4 h)	851 mg/L (Rat)
7647-01-0 Hydrochloric Acid		
Oral	LD50	900 mg/kg (Rabbit)
Inhalative	LC50 (4 h)	200-300 mg/L (Rat)
68439-46-3 Alcohols C9-C11 Ethoxylated		
Oral	LD50	1378 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
Irritation of skin	OECD guideline 404	Not classified. (Rabbit)
Irritation of eyes	OECD, guideline 405	cat. 1 (Rabbit)
Sensitization	OECD, guideline 406	Not classified. (guinea pig)
68424-85-1 Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride		
Oral	LD50	919 mg/kg (Mouse)
		426 mg/kg (Rat)
	LC50	240 mg/L (Rat)

· **Symptomes related to the physical, chemical and toxiological characteristics:**
· **If on the skin:** CORROSIVE: Strong caustic effect on skin and mucous membranes.
· **If on the eye:** CORROSIVE: Strong caustic effect.
· **After ingestion:** May cause irritation of the gastrointestinal tract, nausea, vomiting and headache.
· **Sensitization:** No sensitizing effects known.
· **Delayed and immediate effects, and chronic effects from short-term and long-term exposure:**
Prolonged or frequent contact can cause eczema and inflammation of the skins as a results of degreasing.
· **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:

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Harmful
Corrosive
Irritant
Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· **Carcinogenic categories:**

· **IARC (International Agency for Research on Cancer)**		
7647-01-0	Hydrochloric Acid	3
64-17-5	Ethanol	1

· **NTP (National Toxicology Program)**
None of the ingredients is listed.

12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**	
68439-46-3 Alcohols C9-C11 Ethoxylated	
LC50 (96 h, OECD guideline 203)	5-7 mg/L (oncorhynchus mykiss [rainbow trout])
EC50 (48 h, OECD guideline 202)	2.5 mg/L (daphnia magna [water flea])
EC50 (96 h)	1.4 mg/L (Algae)
68424-85-1 Alkyl (C12-16) Dimethylbenzyl Ammonium Chloride	
EC50 (48 h, OECD guideline 202)	<1 mg/L (daphnia magna [water flea])
EC50 (72 h, OECD guideline 201)	<1 mg/L (Algae)
EC50 (96 h)	<1 mg/L (oncorhynchus mykiss [rainbow trout])

· **Behavior in environmental systems:**
· **Bioaccumulative potential:** No further relevant information available.
· **Mobility in soil:** No further relevant information available.
· **Ecotoxicity:** No relevant information available
· **Remark:** Harmful to fish
· **General notes:**
Germany: Water hazard class 3 (Self-assessment): extremely hazardous for water.
Germany: Do not allow product to reach ground water, water course or sewage system, even in small quantities.
Must not reach bodies of water or drainage ditch undiluted or unneutralized.
Germany: Danger to drinking water if even extremely small quantities leak into the ground.
Harmful to aquatic organisms
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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13 Disposal considerations

· **Waste treatment methods:**
· **Recommendation:**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system unless significantly diluted or neutralized.

· **Uncleaned packagings:**
· **Recommendation:** Disposal must be made according to official regulations.
· **Recommended cleansing agent:** Water.

14 Transport information

· **DOT, IMDG, IATA**	UN1789
· **UN proper shipping name** · **DOT**	Hydrochloric acid
· **Transport hazard class(es)** · **Class**	8 Corrosive substances
· **Packing group** · **DOT**	II
· **Environmental hazards:**	Not applicable.
· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

· **Chemicals known to cause cancer:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	Ethanol

· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value established by ACGIH)**

7647-01-0	Hydrochloric Acid	A4
64-17-5	Ethanol	A3

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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Date of creation/last revision:** 03/08/2016

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
NIOSH: National Institute for Occupational Safety
Met. Corr.1: Corrosive to metals, Hazard Category 1
Acute Tox. 2: Acute toxicity, Hazard Category 2
Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3