SAFETY DATA SHEET



1. IDENTIFICATION

Product identifier

Product Name

Hydrochloric Acid, 10% v/v

Other means of identification Manufacturer number: HA6310-B

Recommended Uses Extra Strength degreaser

Distributor Address

Best Sanitizers, Inc. PO Box 1360 Penn Valley, CA 95946 Toll Free: 888-225-3267

Emergency telephone number

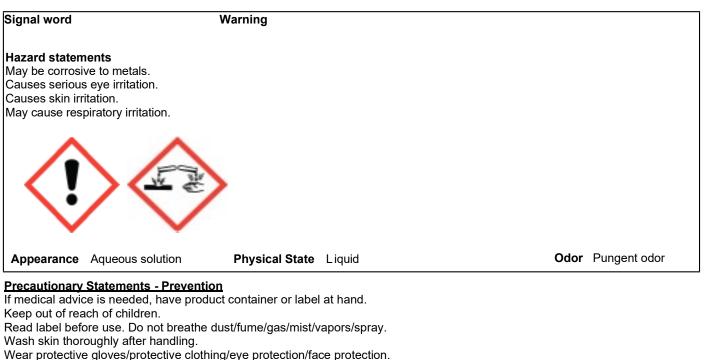
Emergency Phone Numbers

Aquaphoenix Scientific 1-800-255-3924

2. HAZARDS IDENTIFICATION

Classification

Specific target organ toxicity following single exposure	Category 3
Serious eye damage/irritation	Category 2A
Skin irritant	Category 2
Corrosive to metals	Category 1



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

Avoid breathing dust/fume/gas/mist/vapors/spray.

Use only outdoors or in a well-ventilated area.

Keep only in original container.

Precautionary Statements - Response

F ON SKIN (or hair): Remove/Takeoff immediately all contaminated clothing. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Call a POISON CENTER or doctor if you feel unwell. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Specific treatment (see Section 4).

Precautionary Statements - Storage

In case of fire: Use media appropriate for extinction. Store locked up. Store in a well-ventilated place. Store in corrosive resistant stainless steel container with a resistant inner liner.

Precautionary Statements - Disposal

Dispose of contents/container according to local, regional, national, territorial, provincial, and international regulation.

Hazards not otherwise classified (HNOC)

None.

Other Information

No ingredients of Unknown Acute Toxicity.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %	Trade Secret
Hydrochloric Acid, ACS	7647-01-0	11.8	
Water	7732-18-5	88.2	

* The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

Eye Contact

	contact lenses, if present, after first 5 minutes, then continue rinsing eye(s). Get medical advice/attention.
Skin Contact	Wash affected area with soap and water. Rinse/flush exposed skin gently using water for 15-20 minutes. Get medical attention if irritation persists or if concerned.
Inhalation	Remove to fresh air. Seek immediate medical attention if discomfort or irritation persists.
Ingestion	Rinse mouth thoroughly. Do NOT induce vomiting.
	Drink sips of water.
	Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Effects

Inhalation may cause irritation to nose and upper respiratory tract, ulceration, coughing, chest tightness and shortness of breath. Higher concentrations cause tachypnoea, pulmonary edema and suffocation. Ingestion may cause corrosion of lips, mouth, esophagus and stomach, dysphagia and vomiting. Pain, eye, ulceration, conjunctival irritation, cataracts and glaucoma may occur following eye exposure. Erythema and skin irritation, as well as chemical burns to skin and mucous membranes may arise following skin exposure. Potential sequelae following ingestion of hydrochloric acid include perforation, scarring of the esophagus or stomach obstruction. In some cases, RADS may develop. Respiratory symptoms may take up to 36 hours to develop.

Indication of any immediate medical attention and special treatment needed

If seeking medical attention, provide SDS document to physician.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate suppression agents for adjacent combustible materials or sources of ignition.

Unsuitable Extinguishing Media

None.

Specific Hazards Arising from the Chemical

Combustion products may include carbon oxides or other toxic vapors. Hydrogen chloride gas.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can produce poisoning chlorine. Hydrochloric acid reacts also with many organic materials with liberation of heat.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions	Use personal protection recommended in Section 8. Ensure adequate ventilation, especially in confined areas. Keep unprotected persons away. Keep away from ignition sources. Protect from heat. Contained spilled material by diking or using inert absorbent.
Environmental Precautions	Prevent entry into waterways, sewers, basements or confined areas. See Section 12 for additional ecological information.
Methods and material for containm	ent and cleaning up
Methods for Containment	Prevent further leakage or spillage if safe to do so. Contain and collect spillage with non- combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13).
Methods for Cleaning Up	Use clean non-sparking tools to collect absorbed material. May be ignited by friction, heat, sparks or flames. Collect spillage. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. Following product recovery, flush area with water. Place in properly labeled containers. If in a laboratory setting, follow Chemical Hygiene Plan procedures.
	7. HANDLING AND STORAGE
Precautions for safe handling	
Handling	Prevent formation of aerosols. If opening metal containers, use non-sparking tools because of the possibility of hydrogen gas being present. Wash hands after handling. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Use personal protection recommended in Section 8. When handling hydrochloric acid avoid contact with metals and organic matters. Never use hot water and never add water to the acid!

Conditions for safe storage. including any incompatibilities

Storage Conditions/ Incompatible materials Keep Containers tightly closed in a dry, cool and well-ventilated place. Avoid storage near extreme heat, ignition sources or open flame. Keep away from foodstuffs. Store away from oxidizing agents. Protect from freezing and physical damage. Containers for hydrochloric acid must be made from corrosion resistant materials: glass, polyethylene, polypropylene, polyvinyl chloride, carbon steel lined with rubber or ebonite.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

ſ	Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
	Hydrochloric Acid 7647-01-0	2 ppm Ceiling	TWA 7 mg/m3 Ceiling	5 ppm Ceiling 7 mg/m3 Ceiling.

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Appropriate engineering controls

Engineering Controls Emergency eyewash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits.

Individual protection measures, such as personal protective equipment

Eye/Face Protection	Wear safety glasses with side shields (or goggles).	
Skin and Body Protection	Wear impermeable and resistant to the product/ substance/preparation protective gloves. Selection of glove material on consideration of the penetration times, rates of diffusion and degradation.	
Respiratory Protection	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.	
Hygiene Measures	The usual precautionary measures are to be adhereed to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash face, hands and any exposed skin thoroughly after handling. Wash contaminated clothing and shoes before reuse. Do not Eat, Drink or Smoke when using this product. Do not inhale gases/fumes/dust/mist/vapors/aerosols. Avoid contact with the eyes and skin.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Formula	See Section 3		
Physical State Appearance Color <u>Property</u> pH	Liquid Aqueous solution Clear <u>Values</u> < 1	Odor Odor Threshold <u>Remarks/ Method</u>	Pungent odor 0.3 - 14.9 mg/m3
Melting/freezing point	-17.14°C	None known	

Boiling point / boiling range Flash Point	No information available. Not applicable	None known N/A
Evaporation rate	> 1.00	None known
Flammability (solid, gas)	Noncombustible	None known
Flammability Limits in Air		
Upper flammability limit	Nonexplosive	None known
Lower flammability limit	Nonexplosive	None known
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	Not determined	None known
Water Solubility	Soluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient:	No data available	None known
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known

10. STABILITY AND REACTIVITY

Reactivity

Reacts violently with bases and is corrosive.

Chemical stability

No decompostion if used and stored according to specifications.

Possibility of Hazardous Reactions

Reacts violently with oxidants forming toxic gas (chlorine). Attacks many metals in the presence of water forming flammable/explosive gas (hydrogen).

Conditions to avoid

Excess heat. Incompatible products.

Incompatible materials

Metal oxides, formaldehyde. Strong bases. Most metals. Strong oxidizing agents. Reducing agents. Alkalis, cyanides, sulfides. Sulfites.

Hazardous Decomposition Products

Carbon oxides (CO, CO2). Fumes of hydrogen chloride and hydrogen in contact with metals. Oxides of carbon.

11. TOXICOLOGICAL INFORMATION		
Inhalation	Hydrochloric aci	d
Information on toxic	cological effects	
Sensitization		No Information Available
Germ cell mutagenic	ity	No Information Available
Carcinogenicity		IARC: Group 3

Reproductive toxicity No Information Available

12. Ecological Data

Ecotoxicity

None.

Persistence and Degradability Readily Biodegradable.

Bioaccumulation

Not Bioaccumulative.

<u>Mobilitv</u>

Aqueous solution has high mobility in soil.

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Disposal methods Disposal of wastes

Cover spill with soda ash or calcium carbonate. Mix and add water to form slurry. Decant to drain. Treat the solid residue as normal refuse. All chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not dispose together with household garbage.

14. TRANSPORT INFORMATION

DOT

UN ID Number UN proper shipping name Hazard Class Packing Group UN1789 HYDROCHLORIC ACID 8 II

15. REGULATORY INFORMATION

Chemical Inventories

TSCA

Complies

DSL/NDSL Complies TSCA - United States Toxic Substances Control Act Section 8(b) Inventory DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization of 1986 (SARA). 7647-01-0 Hydrochloric Acid.

SARA 311/312 Hazard Categories

Acute Health Hazard

CERCLA

7647-01-0 Hydrochloric Acid 5000

US State Regulations

California Proposition 65

None of the ingredients is listed.

16. OTHER INFORMATION

<u>NFPA</u> HMIS	Health Hazard 2 Health Hazard 2	Flammability 0 Flammability 0	Instability 1 Physical Hazard	1	Physical & Chemical Properties None Personal Protection X
Prepared	Ву	Technical Department			
Preparatio	on/Revision Date	January 1, 2025			
Version		5			
Revision	Note Annual Rev	view			

Yes

General Disclaimer

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End of Safety Data Sheet