according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 14, 2020

1 Identification
· Product identifier
 Trade name: <u>Hydrochloric Acid, 0.02N</u> Product code: HA6020SS
 Recommended use and restriction on use Recommended use: Laboratory chemicals Restrictions on use: No relevant information available.
 Details of the supplier of the Safety Data Sheet Manufacturer/Supplier: AquaPhoenix Scientific, Inc. 860 Gitts Run Road Hanover, PA 17331 USA Tel +1 (717)632-1291 Toll-Free: (866)632-1291 info@aquaphoenixsci.com Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291
 Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)
2 Hazard(s) identification

[•] Classification of the substance or mixture

The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

- [·] Label elements
- · GHS label elements None.
- · Hazard pictograms: Not regulated.
- · Signal word: None.
- · Hazard statements: None.
- · Precautionary statements: None.

· Other hazards There are no other hazards not otherwise classified that have been identified.

3 Composition/information on ingredients

[•] Chemical characterization: Substances

· Components:

	•		
	7732-18-5	Water	>99%
1		Hydrochloric acid	<0.1%
		 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335 	
	· Additional	information:	
	E	$= 1 \cdot \dots + 1 + \dots + 1 $	4

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. (Cont'd. on page 2)

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For the wording of the listed Hazard Statements, refer to section 16.

4 First-aid measures

[•] Description of first aid measures

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

• After inhalation: Supply fresh air; consult doctor in case of complaints.

· After skin contact:

Immediately rinse with water.

If skin irritation is experienced, consult a doctor.

• After eye contact:

Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

• After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested.

- Nausea in case of ingestion.
- · Danger: No relevant information available.
- Indication of any immediate medical attention and special treatment needed:
- If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

- [•] Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- For safety reasons unsuitable extinguishing agents: No relevant information available.
- Special hazards arising from the substance or mixture
- Formation of toxic gases is possible during heating or in case of fire.
- Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

6 Accidental release measures

• Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective equipment. Keep unprotected persons away.

For large spills, use respiratory protective device against the effects of fumes/dust/aerosol.

• Environmental precautions

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Methods and material for containment and cleaning up

Use limestone to neutralize and/or absorb spill.

Send for recovery or disposal in suitable receptacles.

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Frade name: Hy	drochloric Acid, 0.02N
See Section 7 See Section 8	(Cont'd. of page : for information on safe handling. for information on personal protection equipment. 3 for disposal information.
7 Handling a	nd storage
Avoid splashe Use only in we	for safe handling: s or spray in enclosed areas. Il ventilated areas. I bout protection against explosions and fires: No special measures required.
Unsuitable ma Unsuitable ma Information a Store away fro Do not store to Further inform Keep containe Store in cool, o	ne original receptacle. aterial for receptacle: aluminium. aterial for receptacle: steel. about storage in one common storage facility: bom foodstuffs. bogether with alkalis (caustic solutions). mation about storage conditions: ers tightly sealed. dry conditions in well sealed receptacles. a use(s) No relevant information available.
8 Exposure o	controls/personal protection
The following	ameters with limit values that require monitoring at the workplace: g constituent is the only constituent of the product which has a PEL, TLV or othe d exposure limit.
•	drochloric acid
PEL (USA)	Ceiling limit value: 7 mg/m ³ , 5 ppm
REL (USA) TLV (USA)	Ceiling limit value: 7 mg/m³, 5 ppm Ceiling limit value: 2.98 mg/m³, 2 ppm
EL (Canada)	Ceiling limit value: 2 ppm Ceiling limit value: 2 ppm
	county intric value. 2 ppm

EV (Canada) Ceiling limit value: 2 ppm LMPE (Mexico) Ceiling limit value: 2 ppm

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• Exposure controls

• General protective and hygienic measures: The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

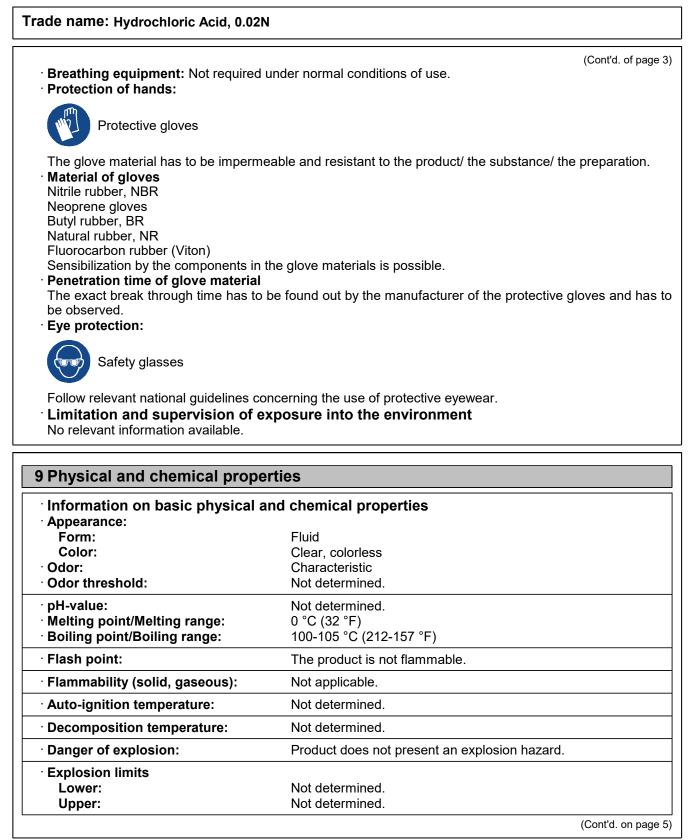
Wash hands before breaks and at the end of work.

• Engineering controls: Provide adequate ventilation.

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rade name: Hydrochloric Acid, 0.02N	1	
		(Cont'd. of page 4
· Oxidizing properties:	Not determined.	
· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
 Density at 20 °C (68 °F): Relative density: Vapor density: Evaporation rate: 	>1 g/cm³ (>8.35 lbs/gal) Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with Water: 	Fully miscible.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity Dynamic: Kinematic:	Not determined. Not determined.	
[•] Other information	No relevant information available.	

10 Stability and reactivity

· Reactivity: No relevant information available.

· Chemical stability: Stable under normal temperatures and pressures.

• Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

[•] Possibility of hazardous reactions

Reacts with alkali (lyes).

Corrosive action on metals.

Toxic fumes may be released if heated above the decomposition point.

· Conditions to avoid No relevant information available.

[·] Incompatible materials

Alkalis.

Metals.

Hazardous decomposition products

Hydrogen

Under fire conditions only: Chlorine compounds

11 Toxicological information

[·] Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification: None.

· Primary irritant effect:

· On the skin: Based on available data, the classification criteria are not met.

· On the eye: Based on available data, the classification criteria are not met.

• Sensitization: Based on available data, the classification criteria are not met.

· IARC (International Agency for Research on Cancer):

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7647-01-0 Hydrochloric acid

NTP (National Toxicology Program):

None of the ingredients are listed.

OSHA-Ca (Occupational Safety & Health Administration):

None of the ingredients are listed.

· Probable route(s) of exposure:

Ingestion.

Inhalation.

Eye contact.

Skin contact.

• Acute effects (acute toxicity, irritation and corrosivity): No relevant information available.

· Repeated dose toxicity: No relevant information available.

· Germ cell mutagenicity: Based on available data, the classification criteria are not met.

· Carcinogenicity: Based on available data, the classification criteria are not met.

• **Reproductive toxicity:** Based on available data, the classification criteria are not met.

• **STOT-single exposure:** Based on available data, the classification criteria are not met.

• STOT-repeated exposure: Based on available data, the classification criteria are not met.

· Aspiration hazard: Based on available data, the classification criteria are not met.

12 Ecological information

[·] Toxicity

· Aquatic toxicity No relevant information available.

• Persistence and degradability No relevant information available.

· Bioaccumulative potential: No relevant information available.

• Mobility in soil: No relevant information available.

Additional ecological information

· General notes:

Generally not hazardous for water.

Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. If the dilution of the use-level pH-value is considerably increased after use, the aqueous waste, emptied into drains, is only low water-dangerous.

Other adverse effects No relevant information available.

13 Disposal considerations

[•] Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

[·] Uncleaned packagings

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

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UN-Number		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
UN proper shipping name DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Transport hazard class(es)		
DOT, ADR/RID/ADN, IMDG, IATA		
Class	Not regulated.	
Packing group		
DOT, ADR/RID/ADN, IMDG, IATA	Not regulated.	
Environmental hazards	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	

 Safety, health and environmental regulations/legislation spectrum mixture United States (USA) SARA 	ecific for the substance
Section 302 (extremely hazardous substances):	
None of the ingredients are listed.	
Section 313 (Specific toxic chemical listings):	
None of the ingredients are listed.	
TSCA (Toxic Substances Control Act)	
7647-01-0 Hydrochloric acid	
7732-18-5 Water	
Proposition 65 (California)	
Chemicals known to cause cancer:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for females:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity for males:	
None of the ingredients are listed.	
Chemicals known to cause developmental toxicity:	
None of the ingredients are listed.	
EPA (Environmental Protection Agency):	

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None of the ingredients are listed.

IARC (International Agency for Research on Cancer):

7647-01-0 Hydrochloric acid

Canadian Domestic Substances List (DSL):

None of the ingredients are 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.

• Abbreviations and acronyms:

ADR: 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 CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent OSHA: Occupational Safety & Health Administration Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Eye Dam. 1: Serious eye damage/eye irritation - Category 1 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3 Sources Website, European Chemicals Agency (echa.europa.eu) Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/ overview/home.do) Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org) Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6 Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5. Safety Data Sheets, Individual Manufacturers SDS Prepared by: ChemTel 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573 Website: www.chemtel.com