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

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1 Identification	
· Product identifier	
<ul> <li>Trade name: <u>Hydrochloric Acid, 0.12N,</u></li> <li>Product code: HA6094-B</li> </ul>	
<ul> <li>Recommended use and restriction on use</li> <li>Recommended use: Laboratory chemicals</li> <li>Restrictions on use: No relevant information available.</li> </ul>	
<ul> <li>Details of the supplier of the Safety Data Sheet</li> <li>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</li> <li>Distributor: AquaPhoenix Scientific 860 Gitts Run Road, Hanover, PA 17331 (717) 632-1291</li> </ul>	
Emergency telephone number: ChemTel Inc. (800)255-3924 (North America) +1 (813)248-0585 (International)	
2 Hazard(s) identification	
• <b>Classification of the substance or mixture</b> Met. Corr.1 H290 May be corrosive to metals. Eye Irrit. 2A H319 Causes serious eye irritation.	
· Label elements	
<ul> <li>GHS label elements</li> <li>The product is classified and labeled according to the Globally Harmonized Sys</li> <li>Hazard pictograms:</li> </ul>	tem (GHS).
GHS05	
<ul> <li>Signal word: Warning</li> <li>Hazard statements: H290 May be corrosive to metals. H319 Causes serious eye irritation.</li> <li>Precautionary statements: P234 Keep only in original container. P264 Wash thoroughly after handling. P280 Wear protective gloves and eye protection. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes</li> </ul>	. Remove contact lenses if
present and easy to do. Continue rinsing.	
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P337+P313	If eye irritation persists: Get medical advice/attention.	
P390	Absorb spillage to prevent material damage.	
P406	Store in corrosive resistant container with a resistant inner liner.	

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

## **3** Composition/information on ingredients

#### <sup>•</sup> Chemical characterization: Substances

#### · Components:

7647-01-0 Hydrochloric acid	0.1-0.5%
Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	
7732-18-5 Water	99.5-99.9%

#### · Additional information:

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret. For the wording of the listed Hazard Statements, refer to section 16.

#### 4 First-aid measures

#### <sup>•</sup> 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:

Causes serious eye irritation.

Gastric or intestinal disorders when ingested.

· 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

#### <sup>•</sup> 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

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#### · Protective equipment:

Wear self-contained respiratory protective device. Wear fully protective suit.

## 6 Accidental release measures

#### • Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

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

#### • 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.

#### **Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

#### <sup>·</sup> Handling

• Precautions for safe handling:

Avoid splashes or spray in enclosed areas.

Use only in well ventilated areas.

· Information about protection against explosions and fires: No special measures required.

### <sup>•</sup> Conditions for safe storage, including any incompatibilities

#### Requirements to be met by storerooms and receptacles:

Store only in the original receptacle.

Unsuitable material for receptacle: aluminium.

Unsuitable material for receptacle: steel.

Information about storage in one common storage facility:

Store away from foodstuffs.

Do not store together with alkalis (caustic solutions).

• Further information about storage conditions: Keep containers tightly sealed.

• Specific end use(s) No relevant information available.

### 8 Exposure controls/personal protection

#### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

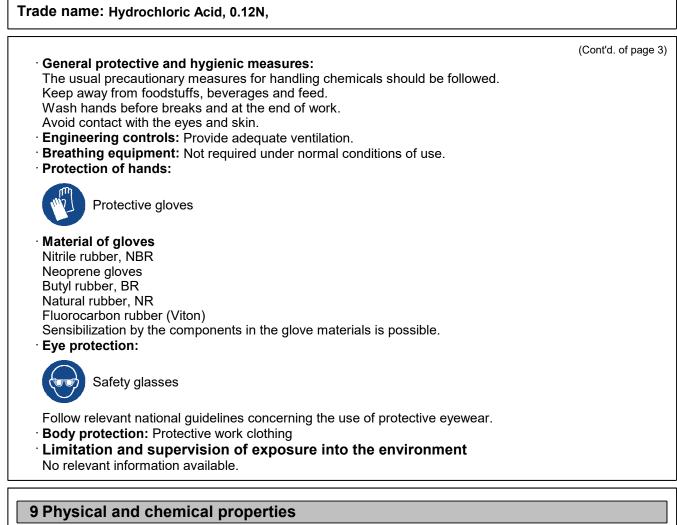
The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

#### • Exposure controls

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Appearance:		
Form:	Liquid	
Color:	Colorless	
Odor:	Acrid	
Odor threshold:	Not determined.	
pH-value at 20 °C (68 °F):	<1	
Melting point/Melting range:	Not determined.	
Boiling point/Boiling range:	Not determined.	
Flash point:	The product is not flammable.	
Flammability (solid, gaseous):	Not applicable.	
Auto-ignition temperature:	Not determined.	
Decomposition temperature:	Not determined.	
Danger of explosion:	Product does not present an explosion hazard.	

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Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
Oxidizing properties:	Not determined.	
Vapor pressure:	Not determined.	
Density:		
Relative density at 20 °C (68 °F):	1.0 g/cm³ (8.35 lbs/gal)	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/water	r): Not determined.	
Viscosity		
Dynamic:	Not determined.	
Kinematic:	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. Reacts with metals forming hydrogen.
 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:

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May cause minor skin irritation, mainly with prolonged contact.	(Cont'd. of page
Based on available data, the classification criteria are not met.	
· On the eye: Irritating effect.	
· Sensitization: Based on available data, the classification criteria are not met.	
· IARC (International Agency for Research on Cancer):	
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): Causes serious eye irritation	1.
• 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.	
<ul> <li>STOT-repeated exposure: Based on available data, the classification criteria are not m</li> </ul>	iet.

## **12 Ecological information**

- <sup>·</sup> 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.
- <sup>•</sup> Additional ecological information
- · General notes:

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

#### <sup>·</sup> 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.

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# <sup>·</sup> Uncleaned packagings

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

UN-Number DOT, ADR/RID/ADN, IMDG, IATA	UN1789
UN proper shipping name DOT ADR/RID/ADN, IMDG, IATA	Hydrochloric Acid Solution HYDROCHLORIC ACID
Transport hazard class(es)	
DOT	
15 30- CCATEGORE	
Class	8
Label	8
ADR/RID/ADN	
Class	8 (C1)
Label	8
IMDG, IATA	
Class	8
Label	8
Packing group DOT, ADR/RID/ADN, IMDG, IATA	Ш
Environmental hazards	Not applicable.
Special precautions for user	Warning: Corrosive substances
Hazard identification number (Kemler co	
EMS Number: Segregation groups	F-A,S-B Acids
Transport in bulk according to Annex	

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<sup>•</sup> Safety, health and environmental regulations/legislation specific	for the substance
mixture	
· United States (USA)	
· SARA	
· 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):	
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

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Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A 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