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

Printing date: December 28, 2018

Revision: December 28, 2018

1 Identification		
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[.] Product identi	ifier	
· Trade name: <u>Hy</u> · Product code: ⊦	ydrochloric Acid, 0.72N HA6120SS	
· Recommended	l use and restriction on use l use: Laboratory chemicals u use: No relevant information available.	
 Details of the s Manufacturer/So AquaPhoenix Sci 860 Gitts Run Ro Hanover, PA 173 Phone: (717)632 Toll-Free: (866)6 info@aquaphoen Distributor: AquaPhoenix Sci 860 Gitts Run Ro Hanover, PA 173 (717) 632-1291 	cientific, Inc. oad 331 2-1291 632-1291 nixsci.com cientific, Inc. oad	
 Emergency tele ChemTel Inc. (800)255-3924 (N +1 (813)248-058 	North America)	
2 Hazard(s) ide	entification	
[.] Classification	of the substance or mixture	
	90 May be corrosive to metals.	
	15 Causes skin irritation.	
Eye Dam. 1 H31	18 Causes serious eye damage.	
· Label element		
• GHS label eleme The product is cla • Hazard pictogra	lassified and labeled according to the Globally Harmonized System (GHS). ams:	
The product is cla		

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P280	Wear protective gloves and eye protection.
P302+P352	If on skin: Wash with plenty of water.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
	present and easy to do. Continue rinsing.
P310	Immediately call a poison center/doctor.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P390	Absorb spillage to prevent material damage.
P406	Store in corrosive resistant container with a resistant inner liner.
· Other hererd	

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

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

•		
7647-01-0	hydrochloric acid	1-10%
	 Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335 	
7732-18-5	Water	90-99%

· 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

[•] 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 continues, consult a doctor.

- · After eye contact:
- Remove contact lenses if worn.

Rinse opened eye for several minutes under running water. Then 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: Eve damage.

Irritant to skin and mucous membranes.

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

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- · 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 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

- [.] 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.
- [•] 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.

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Control paran	vith limit values that require monitoring at the workplace:
7647-01-0 hydr	
PEL (USA)	Ceiling limit value: 7 mg/m ³ , 5 ppm
REL (USA)	Ceiling limit value: 7 mg/m ³ , 5 ppm
TLV (USA)	Ceiling limit value: 2.98 mg/m ³ , 2 ppm
EL (Canada)	Ceiling limit value: 2 ppm
EV (Canada)	Ceiling limit value: 2 ppm
LMPE (Mexico)	Ceiling limit value: 2 ppm A4
Avoid contact w Engineering co Breathing equi Protection of h	fore breaks and at the end of work. ith the eyes and skin. phtrols: Provide adequate ventilation. pment: Not required under normal conditions of use. ands: ive gloves
	BR s NR bber (Viton) y the components in the glove materials is possible. e gloves made of the following materials: Chloroprene rubber, CR
Safety	glasses

9 Physical and chemical properties

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Information on basic physical an	d chemical properties	
· Appearance:		
Form:	Liquid	
Color: · Odor:	Colorless	
· Odor: · Odor threshold:	Acrid Not determined.	
• pH-value at 20 °C (68 °F):	<1.0	
 Melting point/Melting range: Boiling point/Boiling range: 	Not determined. Not determined.	
01 0 0		
· 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.	
· Explosion limits		
Lower:	Not determined.	
Upper:	Not determined.	
• Oxidizing properties:	Not determined.	
· Vapor pressure:	Not determined.	
· Density:		
Relative density at 20 ℃ (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/wate	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. Reacts with metals forming hydrogen.

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

- Conditions to avoid No relevant information available.
- · Incompatible materials No relevant information available.

Hazardous decomposition products

Hydrogen

Under fire conditions only:

Chlorine compounds

11	Toxico	logical	information
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[.] Information on toxicological effects

- · Acute toxicity:
- · LD/LC50 values that are relevant for classification: None.
- · Primary irritant effect:
- · On the skin: Irritant to skin and mucous membranes.
- · On the eye: Causes serious eye damage.
- 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):
- Irritating to skin.

Causes serious eye damage.

- · 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.

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[•] 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.

· Results of PBT and vPvB assessment

- · **PBT:** Not applicable.
- **vPvB:** Not applicable.

· 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.

4 Transport information		
[·] UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1789	
 UN proper shipping name DOT ADR/RID/ADN, IMDG, IATA 	Hydrochloric acid HYDROCHLORIC ACID	
[·] Transport hazard class(es)		
·DOT		
A Constant		
· Class	8	
· Label	8	
· ADR/RID/ADN		
· Class	8 (C1)	
· Label	8	

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· IMDG, IATA		
· Class	8	
· Label	8	
· Packing group		
· DOT, ADR/RID/ADN, IMDG, IATA	III	
· Environmental hazards	Not applicable.	
• Special precautions for user	Warning: Corrosive substances	
Danger code (Kemler):	80	
· EMS Number:	F-A,S-B	
· Segregation groups	Acids	
[•] Transport in bulk according to Annex	ll of	
MARPOL73/78 and the IBC Code	Not applicable.	
5 Regulatory information		

• Safety, health and environmental regulations/legislation specific for the substance or mixture

- · United States (USA)
- · SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 355 (extremely hazardous substances):

7647-01-0 hydrochloric acid

· Section 313 (Specific toxic chemical listings):

7647-01-0 hydrochloric acid

· TSCA (Toxic Substances Control Act)

All ingredients are listed.

· 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.

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· 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) (Substances not listed.):

All 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 PBT: Persistant, Bio-accumulable, Toxic vPvB: very Persistent and very Bioaccumulative 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 Skin Irrit. 2: Skin corrosion/irritation - Category 2 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 Inc. 1305 North Florida Avenue Tampa, Florida USA 33602-2902 Toll Free North America 1-888-255-3924 Intl. +01 813-248-0573

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