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# **Safety Data Sheet**

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

Revision: June 04, 2020

#### 1 Identification

· Product identifier

· Trade name: Hydrochloric Acid, 30% v/v

· Product code: HA6330SS

· 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:

AguaPhoenix 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

Met. Corr.1 H290 May be corrosive to metals.

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

Eye Dam. 1 H318 Causes serious eye damage.

STOT SE 3 H335 May cause respiratory irritation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

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:

P234 Keep only in original container.

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P260 Do not breathe dusts or mists. P264 Wash thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P338 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.
P363 Wash contaminated clothing before reuse.
P390 Absorb spillage to prevent material damage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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

# 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:		
7732-18-5	Water	75-90%
	Hydrochloric acid	10-25%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 Acute Tox. 4, H302; STOT SE 3, H335	

#### · 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 wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

Seek immediate help for blistering or open wounds.

· After eve contact:

Protect unharmed eye.

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.

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Do not induce vomiting; immediately call for medical help.

Most important symptoms and effects, both acute and delayed:

Eye damage.

Acidosis

Coughing

Strong caustic effect on skin and mucous membranes.

May cause respiratory irritation.

Gastric or intestinal disorders when ingested.

· Danger:

Danger of gastric perforation.

Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed:

If necessary oxygen respiration treatment.

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

During heating or in case of fire poisonous gases are produced.

- Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

· Additional information: Cool endangered receptacles with water spray.

#### 6 Accidental release measures

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

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

Wear protective equipment. Keep unprotected persons away.

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

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- · Handling
- Precautions for safe handling:

Prevent formation of aerosols.

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:

Unsuitable material for receptacle: steel.

Unsuitable material for receptacle: aluminium.

Information about storage in one common storage facility:

Store away from foodstuffs.

Store away from metals.

Do not store together with alkalis (caustic solutions).

Further information about storage conditions:

Keep containers tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

· 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.

7647-01-0 Hydr	7647-01-0 Hydrochloric acid			
PEL (USA)	Ceiling limit value: 7 mg/m³, 5 ppm			
REL (USA)	Ceiling limit value: 7 mg/m³, 5 ppm			
TLV (USA)	Ceiling limit value: 2.98 mg/m³, 2 ppm			
EL (Canada)	Ceiling limit value: 2 ppm			
EV (Canada)	Ceiling limit value: 2 ppm			
LMPE (Mexico)	Ceiling limit value: 2 ppm			
	A4			

- · Exposure controls
- · General protective and hygienic measures:

The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

- · Engineering controls: Provide adequate ventilation.
- · Breathing equipment: Use suitable respiratory protective device when high concentrations are present.
- Protection of hands:

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# Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

#### Material of gloves

Natural rubber, NR

Fluorocarbon rubber (Viton)

Nitrile rubber, NBR

Sensibilization by the components in the glove materials is possible.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- · Not suitable are gloves made of the following materials: PVC gloves
- · Eye protection:



Safety glasses

Follow relevant national guidelines concerning the use of protective eyewear.

- · Body protection: Acid resistant protective clothing.
- Limitation and supervision of exposure into the environment

No relevant information available.

Physical and chemical properties Information on basic physical and chemical properties				
Form:	Liquid			
Color:	Clear			
Odor:	Not determined.			
Odor threshold:	Not determined.			
pH-value:	Not determined.			
Melting point/Melting range:	Not determined.			
Boiling point/Boiling range:	102-110 °C (215.6-166 °F)			
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.			
		(Cont'd. on pag		

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· Vapor pressure at 20 °C (68 °F):	23 hPa (17.3 mm Hg)	
· Density at 20 °C (68 °F):	1.03 g/cm³ (8.6 lbs/gal)	
Relative density:	Not determined.	
Vapor density:	Not determined.	
Evaporation rate:	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible.	
Partition coefficient (n-octanol/wat	er): 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

Corrosive action on metals.

Reacts with alkali (lyes).

Reacts with base metals forming hydrogen.

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

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

Metals.

Alkalis.

Strong oxidizers such as perchlorates, bromates, and nitrates; hydrofluoric acid.

· Hazardous decomposition products

Chlorine compounds

Hydrogen

# 11 Toxicological information

- Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values that are relevant for classification:

# **ATE (Acute Toxicity Estimate)**

Oral LD50 8249 mg/kg (rabbit)

- Primary irritant effect:
- · On the skin: Strong caustic effect on skin and mucous membranes.
- · On the eye: Strong caustic effect.

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

IARC (International Agency for Research on Cancer):

7647-01-0 Hydrochloric acid

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· 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.

Eve contact.

Skin contact.

· Acute effects (acute toxicity, irritation and corrosivity):

Causes severe skin burns and eye damage.

May cause respiratory irritation.

- · 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:** May cause respiratory irritation.
- · 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:

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

· 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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14 Transport information			
· UN-Number · DOT, ADR/RID/ADN, IMDG, IATA	UN1789		
· UN proper shipping name · DOT · ADR/RID/ADN, IMDG, IATA	Hydrochloric acid solution HYDROCHLORIC ACID solution		
Transport hazard class(es)			
· DOT			
CORROGUE			
· 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	II		
· Environmental hazards	Not applicable.		
Special precautions for user Hazard identification number (Kemler code): EMS Number: Segregation groups	Warning: Corrosive substances 80 F-A,S-B Acids		
Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code	<b>f</b> Not applicable.		

# 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · United States (USA)

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·SARA

· Section 302 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

7647-01-0 Hydrochloric acid

· 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

|3

· 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)

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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

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