

Safety Data Sheet

Hydrochloric Acid, 10%

Revision Date: 0722/19

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier	Trade name: Hydrochloric Acid 10% Product code(s): 3398-16
1.2 Relevant identified uses	Laboratory Reagent
Supplier:	Astral Diagnostics Inc. 800-441-0366 Technical Service Monday-Friday: 8:00 -5:00 PM
Synonym:	None.
Material uses:	Laboratory Reagent.
Validation date:	12/11/2013
In case of emergency:	800-424-9300 CHEMTREC (USA) 24 Hours/Day: 7 Days/Week

2. HAZARDS IDENTIFICATION

Emergency Overview:

2.1 Classification of the substance or mixture

GHS-US Classification

Skin corrosion/irritation Category 1B, H314

Serious eye damage/eye irritation Category 1, H318

2.2 Label elements

GHS-US labeling

Hazard Pictograms:



Signal Word: Danger

Hazard Statements

H314: Causes severe skin burns and eye damage

Precautionary Statements

P260: Do not breathe mist, vapors, spray

P264: Wash hands, forearms and face thoroughly after handling

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

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P363: Wash contaminated clothing before reuse

P405: Store locked up

2.3 Other hazards

None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS number	% by volume
Water	7732-18-5	90
Hydrochloric Acid	7647-01-0	10

4. FIRST AID MEASURES

First-aid measures general: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation: *Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.*

First-aid measures after skin contact: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician.

First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.

First-aid measures after ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media: Do not use a heavy water stream

5.2 Special hazards arising from the substance or mixture

No additional information available

5.3 Advice for firefighters

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. Do not enter fire area without proper protective equipment, including respiratory protection.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment: Gloves. Safety glasses. Combined gas/dust mask with filter type B/P3.

Emergency procedures: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Precautions for safe handling: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe mist, vapors, spray. Obtain special instructions before use. Use personal protective equipment as required. Do not handle until all safety precautions have been read and understood.

Hygiene measures: Wash exposed skin thoroughly after handling. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures: Comply with applicable regulations.

Storage conditions: Keep container closed when not in use. Protect from sunlight. Store in a well-ventilated place.

Incompatible products: metals, cyanides, strong bases, strong acids

Incompatible materials: Direct sunlight

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Consult local authorities for acceptable exposure limits.

Component	Source	Type	Value	Note
Hydrochloric Acid	ACGIH	Ceiling	2.98 mg/3, 2 ppm	
	OSHA	PEL	7 mg/m ³ , 5 ppm	
	IDLH	US	50 ppm	
	NIOSH	REL (Ceiling)	7 mg/m ³ , 5 ppm	

Personal protective equipment: Safety glasses. Gloves. Protective clothing. High gas/vapor concentration: gas mask with filter type B.

Hand protection: Wear protective gloves.

Eye protection: Chemical goggles or face shield.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: Wear appropriate mask. Gas mask with filter type B.

Other information: Do not eat, drink or smoke during use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid.

Flash Point: NA

pH: <0.5

Melting/freezing point: NA

Vapor pressure: NA

Odor threshold: NA

VOC: NA

Color: Colorless

Odor: None

Boiling/condensation point: NA

Relative density: NA

Vapor density: NA

Evaporation rate: NA

Solubility: Soluble in the following materials: water

10. STABILITY AND REACTIVITY

10.1. Reactivity

Thermal decomposition generates: corrosive vapors

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts violently with some bases: releases heat

10.4. Conditions to avoid

Extremely high or low temperatures.

10.5. Incompatible materials

Cyanides Strong bases. metals

10.6. Hazardous decomposition products

Hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Water (7732-18-5)

LD50 oral rat ≥ 90000 mg/kg

ATE US (oral) 90000.000 mg/kg body weight

Hydrochloric Acid (7647-01-0)

LD50 oral rat 700 mg/kg

LD50 dermal rabbit 5010 mg/kg

ATE US oral 700 mg/kg body weight

ATE US dermal 5010 mg/kg body weight

Skin corrosion/irritation: Causes severe skin burns and eye damage

Serious eye damage/irritation: Causes serious eye damage

Respiratory or skin sensitization: Not classified

Germ cell mutagenicity: Not classified

Carcinogenicity: Not Classified

12. ECOLOGICAL INFORMATION

Toxicity

Hydrochloric Acid

LC50 fish 1: 282 mg/l 96h

LC50 Daphnia 1: <56 mg/l 72h

Persistence and degradability:

Hydrochloric Acid	
Persistence and degradability	Not established
Biochemical Oxygen Demand	Not established
Chemical Oxygen Demand	Not established
ThOD	Not established

Bioaccumulative potential: no data available

Hydrochloric Acid	
BCF fish 1	Not established
Log Pow	0.25 (QSAR)
Bioaccumulative potential	Low potential

Mobility in soil:

Hydrochloric Acid	
Surface Tension	Not established
Log Koc	Not established
	May be harmful to plant growth

PBT and vPvB assessment: no data available
Other adverse effects: avoid release to the environment

13. DISPOSAL CONSIDERATIONS

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

14. TRANSPORT INFORMATION

DOT (US)

UN-No. UN1789

Transportation hazard class(es): class 8- Corrosive material

Packing group: II-medium danger

Proper shipping name: Hydrochloric Acid

15. REGULATORY INFORMATION

15.1 US Federal Regulations

Hydrochloric Acid (7647-01-0)

Listed on the US TSCA inventory. Not subject to reporting requirements of the United States SARA Section 311/312. Immediate (acute) health hazard

RQ 5000lb

15.2 International Regulations (WHMIS Classifications)

No additional information available

15.3 California Proposition 65

This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

16. OTHER INFORMATION

National Fire Protection Association (U.S.A.)



Notice to reader

This Safety Data Sheet has been prepared in accordance with the Globally Harmonized System for the Classification and Labeling of Chemicals (GHS). To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries makes any warranty of merchantability or any other warranty, expressed or implied, which respect to such information, and we assume no liability resulting from its use. In no event shall Astral Diagnostics, Inc be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages resulting from use of or reliance upon this information.