

# Safety Data Sheet

Issue Date: April 1 2015

Revision Date: 02-Dec-2014

## 1. IDENTIFICATION

### Product Identifier

**Product Name** Champion Muriatic Acid

### Other means of identification

**SDS #** CPD-018

**UN/ID No** UN1789

### Recommended use of the chemical and restrictions on use

**Recommended Use** Pool Water Ph Adjuster.

### Details of the supplier of the safety data sheet

#### Supplier Address

Champion Packaging & Distribution  
1840 International pkwy  
Woodridge, IL 60517

### Emergency Telephone Number

**Company Phone Number** 630-972-0100  
**Emergency Telephone (24 hr)** INFOTRAC 1-352-323-3500 (International)  
1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Colorless liquid

**Physical State** Liquid

**Odor** Sharp, pungent, irritating odor

### Classification

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Specific target organ toxicity (single exposure)	Category 3

### Hazards Not Otherwise Classified (HNOC)

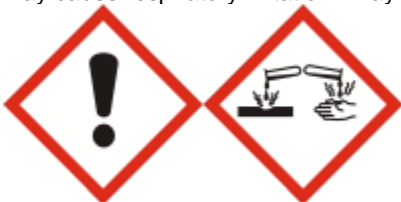
May be harmful if swallowed

### Signal Word

**Danger**

### Hazard Statements

Harmful if inhaled  
Causes severe skin burns and eye damage  
May cause respiratory irritation. May cause drowsiness or dizziness



**Precautionary Statements - Prevention**

Use only outdoors or in a well-ventilated area  
 Do not breathe dust/fume/gas/mist/vapors/spray  
 Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection

**Precautionary Statements - Response**

Immediately call a poison center or doctor/physician  
 IF IN EYES: 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  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Immediately call a poison center or doctor/physician  
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting

**Precautionary Statements - Storage**

Store locked up  
 Store in a well-ventilated place. Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Hydrochloric acid	7647-01-0	30-40

\*\*If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.\*\*

### 4. FIRST-AID MEASURES

**First Aid Measures**

<b>General Advice</b>	Immediately call a poison center or doctor/physician.
<b>Eye Contact</b>	Wash eyes immediately with large amounts of water (preferably eye wash fountain), lifting the upper and lower eyelids and rotating eyeball. Continue washing for a minimum of 15 minutes. Get medical attention immediately.
<b>Skin Contact</b>	Remove contaminated clothing and wash skin thoroughly for a minimum of 15 minutes with large quantities of water (preferably a safety shower). Get medical attention immediately. Wash clothing before re-use. Destroy contaminated shoes.
<b>Inhalation</b>	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If breathing has stopped, give artificial respiration. Immediately call a poison center or doctor/physician.
<b>Ingestion</b>	Rinse mouth. Do not induce vomiting. If conscious give large amounts of water. Get medical attention immediately.

**Most important symptoms and effects**

<b>Symptoms</b>	May be harmful if swallowed. Harmful if inhaled. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Not determined.

### Specific Hazards Arising from the Chemical

No fire hazards exist directly from Hydrochloric Acid; however, when Hydrochloric Acid comes in contact with common metals, it can generate hydrogen gas. In sufficient concentrations, hydrogen can form explosive mixtures in air.

**Hazardous Combustion Products** Contact with common metals produces hydrogen which may form explosive mixtures with air. Thermal decomposition may release corrosive hydrogen chloride gas. Contact with strong oxidizers may produce chlorine gas. Reacts with formaldehyde to produce bischloromethyl ether, OSHA regulated carcinogen.

### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal Precautions** Use personal protective equipment as required. Do not breathe vapors.

### Methods and material for containment and cleaning up

**Methods for Containment** Evacuate area and deny entry by unauthorized personnel. Keep upwind.

**Methods for Clean-Up** For large spills, contain and pump into tank that has been constructed for Hydrochloric Acid service. Knock down vapors with water spray or water fog. Water used to knock down vapors may become corrosive and should be contained properly for later disposal. Neutralize spill with lime, sodium bicarbonate or crushed limestone. Since neutralization with these bases will generate heat (exothermic), the reaction can be violent. The acid should be diluted and cooled before attempting to neutralize. Do not flush to sewer before neutralizing. For small spills, take up with sand or other absorbent material and react with dry alkali (soda ash or lime). Place into container for later disposal. Spills of 5,000 pounds or more must be reported to the National Response Center (800-424-8802) pursuant to the Comprehensive Environmental Response, Compensation and Liability Act.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Store locked up. Store in a well-ventilated place. Keep container tightly closed. Hydrochloric Acid should be handled and stored in equipment suitable and designed for acid service. Store away from incompatible materials.

**Incompatible Materials** Oxidizers. Metals. Caustics.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	Ceiling: 2 ppm	(vacated) Ceiling: 5 ppm (vacated) Ceiling: 7 mg/m <sup>3</sup> Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>	IDLH: 50 ppm Ceiling: 5 ppm Ceiling: 7 mg/m <sup>3</sup>

**Appropriate engineering controls****Engineering Controls**

Provide local exhaust or process enclosure ventilation to maintain levels below the recommended exposure limit. Prevent any condensate formed from dropping on workers. Eye wash and safety showers should be immediately available. Full acid suits and NIOSH/MSHA approved self-contained breathing apparatus should be readily available to handle major spills.

**Individual protection measures, such as personal protective equipment****Eye/Face Protection**

Splash-proof safety goggles and a full-face shield to prevent contact.

**Skin and Body Protection**

Rubber or neoprene gloves and boots, and acid resistant coats or overalls appropriate for work conditions.

**Respiratory Protection**

Full-face NIOSH/MSHA approved respirator for acid gases. Do not exceed the working limits of the respirator.

**General Hygiene Considerations** Employees should wash their hands and face before eating, drinking or using tobacco.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Physical State</b>	Liquid	<b>Odor</b>	Sharp, pungent, irritating odor
<b>Appearance</b>	Colorless to slightly yellow liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Colorless to slightly yellow		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	1		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	61°C-110°C (142°F-230°F)		
<b>Flash Point</b>	Not flammable		
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	Liquid-Not applicable		
<b>Upper Flammability Limits</b>	Not available		
<b>Lower Flammability Limit</b>	Not available		
<b>Vapor Pressure</b>	78 mm Hg	@ 68°F (20 ° C)	
<b>Vapor Density</b>	1.27	(Air=1)	
<b>Specific Gravity</b>	Approximately 1.18	@ 68°F (20°C)	
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>Water Solubility</b>	Completely soluble		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		

## 10. STABILITY AND REACTIVITY

### Reactivity

Not reactive under normal conditions.

### Chemical Stability

Stable under recommended storage conditions.

### Possibility of Hazardous Reactions

None under normal processing.

**Hazardous Polymerization**      This substance does not polymerize.

### Conditions to Avoid

Incompatible Materials.

### Incompatible Materials

Oxidizers. Metals. Caustics.

### Hazardous Decomposition Products

Contact with common metals produces hydrogen which may form explosive mixtures with air. Thermal decomposition may release corrosive hydrogen chloride gas. Contact with strong oxidizers may produce chlorine gas. Reacts with formaldehyde to produce bischloromethyl ether, OSHA regulated carcinogen.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

**Eye Contact**      Causes severe eye damage.

**Skin Contact**      Causes severe skin burns.

**Inhalation**      Harmful if inhaled.

**Ingestion**      May be harmful if swallowed.

### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	= 700 mg/kg ( Rat )	> 5010 mg/kg ( Rabbit )	= 3124 ppm ( Rat ) 1 h

### Information on physical, chemical and toxicological effects

**Symptoms**      Please see section 4 of this SDS for symptoms.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Carcinogenicity**      Group 3 IARC components are "not classifiable as human carcinogens".

Chemical Name	ACGIH	IARC	NTP	OSHA
Hydrochloric acid 7647-01-0		Group 3		

#### Legend

*IARC (International Agency for Research on Cancer)*

*Group 3 IARC components are "not classifiable as human carcinogens"*

**STOT - single exposure**

May cause respiratory irritation. May cause drowsiness or dizziness.

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Component Information**

Chemical Name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Hydrochloric acid 7647-01-0		282: 96 h <i>Gambusia affinis</i> mg/L LC50 static		

**Persistence/Degradability**

Not determined.

**Bioaccumulation**

Not determined.

**Mobility**

Not determined

**Other Adverse Effects**

Not determined

**13. DISPOSAL CONSIDERATIONS****Waste Treatment Methods****Disposal of Wastes**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated Packaging**

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**14. TRANSPORT INFORMATION****Note**

For IBC's "totes", the product is shipped as UN1789, HYDROCHLORIC ACID, 8, II.

**DOT**

UN/ID No	UN1789
Proper Shipping Name	Hydrochloric acid
Hazard Class	8
Packing Group	II

**IATA**

Proper Shipping Name The product as packaged is not approved for air transportation.

**IMDG**

UN/ID No	UN1789
Proper Shipping Name	Hydrochloric acid
Hazard Class	8
Packing Group	II

**15. REGULATORY INFORMATION**

**International Inventories**

Chemical Name	TSCA	DSL	NDSL	EINECS	ELINCS	ENCS	IECSC	KECL	PICCS	AICS
Hydrochloric acid	Present	X		Present		Present	X	Present	X	X

**Legend:**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*

*DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List*

*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*

*ENCS - Japan Existing and New Chemical Substances*

*IECSC - China Inventory of Existing Chemical Substances*

*KECL - Korean Existing and Evaluated Chemical Substances*

*PICCS - Philippines Inventory of Chemicals and Chemical Substances*

*AICS - Australian Inventory of Chemical Substances*

**US Federal Regulations****CERCLA**

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ)
Hydrochloric acid 7647-01-0	5000 lb	5000 lb	RQ 5000 lb final RQ RQ 2270 kg final RQ

**SARA 313**

Chemical Name	CAS No	Weight-%	SARA 313 - Threshold Values %
Hydrochloric acid - 7647-01-0	7647-01-0	32	1.0

**CWA (Clean Water Act)**

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Hydrochloric acid	5000 lb			X

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**U.S. State Right-to-Know Regulations**

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Hydrochloric acid 7647-01-0	X	X	X

<b>16. OTHER INFORMATION</b>
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<u><b>NFPA</b></u>	<b>Health Hazards</b> 3	<b>Flammability</b> Not determined	<b>Instability</b> 2	<b>Special Hazards</b> COR
<u><b>HMIS</b></u>	<b>Health Hazards</b> 3	<b>Flammability</b> Not determined	<b>Physical Hazards</b> 3	<b>Personal Protection</b> F

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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**