

Brand: **MAXTITE**

Issue Date: 22-Nov-2024

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Version 01

## 1. IDENTIFICATION

**Product identifier**

**Product Name** MAXTITE Hydrochloric Acid 37% Solution (1 Gallon). MAXTITE Hydrochloric Acid 37% Solution (32 fl oz).

**Other means of identification**

**SDS #** 674826, 674824

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

**Recommended Use** Industrial, Manufacturing, and Laboratory use.

**Details of the supplier of the safety data sheet**

**Supplier Address**

Pacific Innovations LLC  
129 Seegers Avenue  
Elk Grove Village, IL 60007  
(708) 320-2088

**Emergency telephone number**

**Emergency Telephone** INFOTRAC 1-800-535-5053 (North America)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear liquid

**Physical state** Viscous Liquid

**Odor** Odorless

**Classification**

Corrosive to metals	Category 1
Skin corrosion	Category 1B
Serious eye damage	Category 1
Specific target organ toxicity – single exposure (Respiratory system)	Category 3

**Signal Word**

**Danger**

**Hazard statements**

May be corrosive to metals.  
Causes severe skin burns and eye damage.  
May cause respiratory irritation.



**Precautionary Statements - Prevention**

Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Use only outdoors or in a well-ventilated area.  
 Wear protective gloves/protective clothing/eye protection/face protection.

#### **Precautionary Statements – Response**

IF IN EYES: Seek medical attention immediately. Wash immediately and continuously with flowing water for at least 30 minutes. Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical advice, preferably from an ophthalmologist.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER/ doctor

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

Absorb spillage to prevent material damage.

#### **Precautionary Statements - Storage**

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

Store locked up.

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### **Other hazards**

None known.

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%
Hydrochloric Acid	7647-01-0	37

\*\*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**

#### **Description of first aid measures**

<b>General Advice</b>	Move out of dangerous area. Consult a doctor/physician. Provide this SDS to medical personnel for treatment. Do not leave the victim unattended.
<b>Inhalation</b>	IF INHALED: If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions (pocket mask, etc.). In case of respiratory tract irritation, consult a physician. Provide fresh air.
<b>Skin Contact</b>	IF ON SKIN (or hair): Immediate continued thorough washing in flowing water for at least 30 minutes is imperative while removing contaminated clothing. Prompt medical advice is essential. Wash clothing before reuse. Properly dispose of leather items such as shoes, belts, and watchbands. Suitable emergency safety shower facility should be immediately available.
<b>Eye Contact</b>	IF IN EYES: In case of contact, immediately flush eyes with plenty of water for at least 30 minutes. Remove contact lenses. Suitable emergency eye wash facility should be immediately available.
<b>Ingestion</b>	IF SWALLOWED: Do not induce vomiting. Give one cup (8 ounces or 240 ml) of water or milk if available and transport to a medical facility. Do not give anything by mouth unless the person is fully conscious.

**Most important symptoms and effects, both acute and delayed****Symptoms**

Swallowing may result in burns of the mouth and throat. Mist and Vapor may cause severe irritation of the upper respiratory tract (nose and throat) and lungs. May cause severe pulmonary edema (fluid in the lungs). Causes skin burns. May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness.

**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**

This material does not burn. If exposed to fire from another source, use suitable extinguishing agent for that fire.

**Unsuitable Extinguishing Media** Do not use water.

**Specific Hazards Arising from the Chemical**

Product reacts with water. Reaction may produce heat and/or gases. This reaction may be violent.

**Hazardous combustion products** Hydrogen chloride

**Protective equipment and precautions for firefighters**

Wear positive pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with SCBA. If this is not available, wear full chemical resistant clothing with SCBA and fight fire from a remote location.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal Precautions**

Evacuate area. Keep upwind of spill. Ventilate area of leak or spill. Only trained and properly protected personnel must be involved in clean-up operations. Use appropriate safety equipment.

**For Emergency Responders**

Follow all firefighting procedures in Section 5. Use personal protection recommended in Section 8.

**Environmental precautions****Environmental precautions**

Prevent from entering drains. Prevent further leakage or spillage if safe to do so. See Section 12, Ecological Information. Notify authorities if liquid enters sewers or public waters.

**Methods and material for containment and cleaning up****Methods for Containment and Clean-up**

Small spills: Dilute with large quantities of water. Collect in suitable and properly labeled containers.  
Large spills: Contain spilled material if possible. Attempt to neutralize by adding materials such as limestone, lime, soda ash. Pump into suitable and properly labeled containers. Contact your supplier for clean-up assistance. Disposal according to local and national regulations.

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on Safe Handling**

Do not get in eyes, on skin, on clothing. Do not swallow. Do not breathe vapor. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation.

**Conditions for safe storage, including any incompatibilities****Storage Conditions**

Store in the following materials: plastic, polyethylene-lined container, natural rubber. Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from incompatible

materials.

**Incompatible Materials**

Heat is generated when mixed with water. Spattering and boiling can occur. Strong bases, sulfuric acid, amines, bases, carbonates, oxidizers, metals.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH REL
Hydrochloric acid 7647-01-0	STEL: - TWA: 2 ppm	TWA: 5 ppm TWA: 7 mg/m <sup>3</sup>	TWA: 5 ppm TWA: 7 mg/m <sup>3</sup>

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

Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

Safety shower, eye wash fountain, and washing facilities should be readily available. Apply technical measures to comply with the occupational exposure limits.

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

Tightly fitting chemical safety goggles/ faceshield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

**Skin and Body Protection**

Wear nitrile rubber gloves, impervious clothing.  
Choose body protection according to the amount and concentration of the dangerous substance at the workplace.

**Respiratory Protection**

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. Filter type: Acid gas cartridge with particulate pre-filter.

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands before breaks and at the end of workday.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

<b>Appearance</b>	Liquid	<b>Odor</b>	acidic
<b>Color</b>	White to yellow	<b>Odor Threshold</b>	No data available.
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>	< 2		
<b>Melting point / freezing point</b>	-30 C		
<b>Boiling point / boiling range</b>	Not determined		
<b>Flash point</b>	Not determined		
<b>Evaporation Rate</b>	Not determined		
<b>Flammability (Solid, Gas)</b>	Not relevant, (fluid)		
<b>Flammability Limit in Air</b>	Not Flammable		
<b>Vapor Pressure</b>	190 hPa at 20C		
<b>Vapor Density</b>	No data available		
<b>Relative Density</b>	1.01– 1.186 g/cm <sup>3</sup> at (20C)		
<b>Water Solubility</b>	Miscible in water.		
<b>Solubility in other solvents</b>	No data available		

<b>Partition Coefficient</b>	- 2.65
<b>Autoignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Kinematic viscosity</b>	No data available
<b>Dynamic Viscosity</b>	No data available
<b>Explosive Properties</b>	Not an explosive
<b>Oxidizing Properties</b>	Not an oxidizer

## 10. STABILITY AND REACTIVITY

### Reactivity

Corrosive in contact with metals.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

Polymerization will not occur.

### Conditions to Avoid

Extremes of temperature.

### Incompatible materials

Strong bases, sulfuric acid, amines, bases, carbonates, oxidizers, metals.

### Hazardous decomposition products

Hydrogen chloride.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Eye Contact</b>	Causes serious eye damage.
<b>Skin Contact</b>	Corrosive to the skin.
<b>Inhalation</b>	Do not inhale.
<b>Ingestion</b>	Do not ingest.

### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Hydrochloric acid 7647-01-0	No data available	No data available	1.03 mg/L (4h, Rat)

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Symptoms</b>	Please see section 4 of this SDS for symptoms.
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### Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Carcinogenicity</b>	Not classified. No adverse effect observed.
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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

May decrease pH of aquatic systems to < pH 5 which may be toxic to aquatic organisms.

### Component Information

Chemical name	Algae/aquatic plants	Fish	Crustacea
Hydrochloric acid 7647-01-0	Not available	Not available	Not available

### Persistence/Degradability

No data available

### Bioaccumulation

No data available

### Mobility

No data available

### Other Adverse Effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste Treatment Methods

<b>Disposal of Wastes</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations. Do not dump into any sewers, on the ground, or into any body of water.
<b>Contaminated Packaging</b>	Disposal should be in accordance with applicable regional, national and local laws and regulations.

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

### DOT

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

### IATA

UN number	UN1789
Proper Shipping Name	Hydrochloric acid
Transport hazard class(es)	8
Packing Group	II

### IMDG

UN number	UN1789
Proper Shipping Name	Hydrochloric acid
Transport hazard class(es)	8
Packing Group	II

## 15. REGULATORY INFORMATION

### International Inventories

Chemical name	TSCA	TSCA Inventory Status	DSL/NDL	EINECS/ELINCS	ENCS	IECSC	KECL	PICCS	AICS

Hydrochloric Acid	X	ACTIVE	X	X	X	X	X	X	X
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**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**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

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

**SARA 311/312**

Reactive Hazard, Acute Health Hazard

**SARA 313**

This material is listed in 40 CFR 372.65 and may be subject to Community Right-to-Know Reporting requirements.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

Chemical name	Washington	Massachusetts	Maine	Pennsylvania	Vermont
Hydrochloric acid 7647-01-0	X	X	X	X	X

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Instability</b>	<b>Special Hazards</b>
	3	0	0	Not determined
<b>HMIS</b>	<b>Health Hazards</b>	<b>Flammability</b>	<b>Physical hazards</b>	<b>Personal Protection</b>
	Not determined	Not determined	Not determined	Not determined

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 Revision Note: New format

**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**