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Section 1 Chemical Product and Company Identification

Product Identifier Muriatic Acid
Product Number IR-PRO3060

General Use Used to deoxidize photoengraving metal plates

Company UEI Systems®, a UEI Group Company

Address 9090 Nieman Road

Overland Park, KS 66214 USA

Phone +1 800 221 9059 or +1 913 541 0503

Emergency Contact Number CHEMTREC – Available 24 hours/day, 7 days/week

Domestic North America: +1 800 424 9300

International: +1 703 527 3887

Section 2 Hazards Identification

GHS Classification

Hazard Class	Hazard Category	Route of Exposure
Corrosive to metals	1	_
Skin Corrosion	1B	_
Serious Eye Damage	1	_
Specific Target Organ Toxicity	3	Respiratory

GHS Labeling

Contains

Hydrogen Chloride (7647-01-0) (Hydrochloric Acid)





Danger

Hazard Statements May be corrosive to metals

Causes severe skin burns and eye damage

Causes serious eye damage May cause respiratory irritation

Precautionary Statements Ke

Keep only in original container

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

Response

If Swallowed Rinse mouth. Do not induce vomiting

If On Skin Immediately remove all contaminated clothing. Rinse skin with water/shower. If Inhaled Remove victim to fresh air and keep at rest in a comfortable position for breathing.

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. Wash contaminated clothing and wash before reuse.

Absorb spillage to prevent material damage.



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Section 2	Hazards Identification, continue	ed		
Storage	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Store in corrosive resistant stainless steel container with a resistant inner liner.			
Disposal	Dispose of contents/container to an approved waste disposal plant.			
Section 3	Hazardous Ingredients / Identit	y Informatio	n	
	Hazardous Components	CAS No.	%	
	Hydrogen Chloride (Hydrochloric Acid)	7647-01-0	20	
Section 4	First Aid Measures			
	In all cases, call a physician immediately	y.		
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.			
Skin Contact	Immediately take off contaminated clothing and shoes. Wash off with soap and plenty of water. Consult a physician.			
Eye Contact	Immediately flush eyes with large amounts of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.			
Ingestion	Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.			
Acute and Delayed Symptoms	The most important know symptoms and	l effects are des	cribed in Section 2 and/or Section 1	
Section 5	Firefighting Measures			
Extinguishing Media	Use water spray, alcohol-resistant foam,	dry chemical, o	r carbon dioxide	
Flammable/Combustible Properties	Hydrogen chloride gas			
Firefighting Equipment/Instructions	Wear self-contained breathing apparatus for firefighting, if necessary			
Section 6	Accidental Release Measures			
Personal Precautions	Wear respiratory protection. Avoid dust f Evacuate personnel to safe areas. Avoid b			
Environmental Precautions	Do not let product enter drains.			
Methods for Cleaning Up	Soak up with inert absorbent material ar closed containers for disposal.	nd dispose of as	hazardous waste. Keep in suitable	
Section 7	Handling and Storage			
Handling Precautions	Avoid contact with skin and eyes. Avoid	inhalation of va	por or mist.	
Storage Requirements	Keep container tightly closed in a dry an opened must be carefully resealed and k Storage class (TRGS 510): Non-combustil	ept upright to p	prevent leakage.	



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Section 8	Component Exposure Li	mits			
Control Parameters	Hazardous Components	CAS No.	%	OSHA (PEL/TWA)	ACGIH TLV
	Hydrogen Chloride (Hydrochloric Acid)	7647-01-0	20	5 ppm (ceiling)	2 ppm (ceiling)
Appropriate Engineering Controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.				
Eye/Face Protection	Wear face shield and safety glasses				
Skin Protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.				
Personal Protection	Wear complete body suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.				
Respiratory Protection	Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).				
Control of Environmental Exposure	Do not let product enter drains				

Section 9	Physical and Chemic	al Properties	
Appearance/Odor	Liquid/light yellow/Punge	nt Odor Threshold	No data available
рН	No data available	Melting Point	22° F (-30° C)
Boiling Point Range	>212° F° (>100° C)	Solubility (H ₂ O)	Soluble
Specific Gravity	(Water = 1) 1.25 to 1.41	Relative Density	1.18 g/mL at 77°F (25° C)
Octanol/H ₂ O Coefficient	No data available	Evaporation Rate	No data available
Decomposition Temperature	No data available	Oxidizing Properties	No data available
Auto Ignition	No data available	Lower Flammability Limit	No data available
Flash Point	Not applicable	Upper Flammability Limit	No data available
Vapor Density	No data available	Vapor Pressure	226.636 hPa (169.991 mmHg) at 70.0° F (21.1° C)
Explosive Properties	No data available		546.596 hPa (409.981 mmHg) at 99.9° F (37.7° C)
Viscosity	No data available	Flammability Class	No data available

Section 10	Chemical Stability and Reactivity
Reactivity	No data available
Chemical Stability	Stable under recommended storage conditions
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatibility	Bases, Amines, Alkali metals, Metals, Permanganates, e.g. Potassium Permanganate, Fluorine, Metal Acetylides, Hexalithium Disilicide
Hazardous Decomposition/ By-Products	Other decomposition products – No data available. In the event of fire, see Section 5.



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Acute Toxicity No data available

Acute Inhalation No data available

Skin Corrosion/Irritation Rabbit: Causes burns

Serious Eye Damage/Eye Irritation Rabbit: Corrosive to eyes

Respiratory/Skin Sensitization No data available

Germ Cell Mutagenicity No data available

Carcinogenicity This product is or contains a component that is not classifiable as to its carcinogenicity

based on its IARC, ACGIH, NTP or EPA classification.

IARC: 3 – Group 3: Not classifiable as to its carcinogenicity to humans.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified

as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity No data available

Specific Target Organ Toxicity

Single Exposure The substance or mixture is classified as specific target organ toxicant, single exposure,

category 3 with respiratory tract irritation.

Specific Target Organ Toxicity

Repeated Exposure No data available
Aspiration Hazard No data available
Additional Information RTECS: MW4025000

Burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, spasm, inflammation and edema of the bronchi, pneumonitis, pulmonary edema. Material is extremely destructive to tissue of the mucous membranes and

upper respiratory tract, eyes and skin.

Section 12 Ecological Information

Toxicity to Fish

Component	Species	Exposure Time	LC50/EC50/IC50
Hydrochloric Acid (7647-01-0)	Gambusia affinis (mosquito fish)	96 hrs	LC50 282 mg/l

Persistence/Degradability No data available
Bioaccumulative Potential No data available
Mobility in Soil No data available

Results of PBT and vPvB Assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other Adverse Effects No data available



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Section 13 Disposal Considerations

Waste Treatment Methods Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging Disposal Instructions Dispose of as an unused product.

Section 14	Tra	ansportation Information	on		
DOT (US)		IMDG		IATA	
UN number	1789	UN number	1789	UN number	1789
Class	8	Class	8	Class	8
Packing group	II	Packing group	II	Packing group	II
Proper shipping name		EMS-No	F-A, S-B	Proper shipping name	
Hydrochloric Acid		Proper shipping name		Hydrochloric Acid	
Reportable Quantity (RQ)		Hydrochloric Acid			
Poison Inhalation Hazard	No				

Section 15	Regulatory Information

SARA 302 Components No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302

SARA 313 Components The following components are subject to reporting levels established by SARA Title III,

Section 313:

	Right To Know Components	CAS-No	Revision Date	
Massachusetts	Hydrochloric Acid	7647-01-0	1993-04-24	
Pennsylvania	Water Hydrochloric Acid	7732-18-5 7647-01-0	- 1993-04-24	
New Jersey	Water Hydrochloric Acid	7732-18-5 7647-01-0	– 1993-04-24	

California Prop 65 This product does not contain any chemicals known to State of California to cause cancer,

birth defects, or any other reproductive harm.



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Section 16 Other Information

UEI Systems® provides the information contained herein in good faith. It is believed to be correct. However it is not all-inclusive and should be used only as a guide. Individuals receiving this information must exercise their independent judgement in determining its appropriateness for a particular purpose. UEI Systems shall not be held liable for any damage resulting from handling or from contact with this product. All information appearing herein is based upon data obtained from the manufacturer and/or recognized technical sources.

Abbreviations PEL Permissible Exposure Limit

TLV Threshold Limit Value

End Notes

1. SARA - Signed into law in 1986, the Superfund Amendments and Reauthorization Act (SARA) is an extension of CERCLA, and is intended to encourage and support local and state emergency planning efforts. SARA provides citizens and local governments with information about potential chemical hazards, and calls for facilities that store hazardous materials to provide officials and citizens with data on the type and amount on hand at specific locations. This field states whether a material is listed or not listed in section 372.65 of SARA. EHS - This states if a material is listed or not listed in Appendix B to part 355, the SARA Extremely Hazardous Substances (EHS) section. RQ is the reportable quantity. TPQ is the Threshold Planning Quantity.

2. RCRA - The Resource Conservation and Recovery Act enacted in 1976 and subsequently amended, controls solid-waste disposal and encourages recycling. This states whether a material is listed or not listed under this regulation. If listed the Hazardous Waste Number and waste characterization assigned by RCRA is also provided.

3. CERCLA - Enacted in 1980 and amended thereafter, the Comprehensive Environmental Response, Compensation, and Liability Act provides for identification and cleanup of hazardous materials released on land, into the air, waterways, and groundwater. It covers areas affected by newly released materials and older leaking or abandoned dump sites. This states whether a material is listed or not listed in CERCLA Table 302.4. If listed the section(s) that it is listed under and the Reportable Quantity (RQ) are also provided.

4. TSCA - The Toxic Substances Control Act controls the exposure to and use of raw industrial chemicals not subject to other laws. This states whether the chemical is listed or not listed under this regulation.

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