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According to 29 CFR 1910.1200

HYDROCHLORIC ACID

Date of issue:	September 01, 2023	Revis	on date: -		Version:	1
SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING						
1.1 Product identifier						
Product form	Liquid					
Substance name	Hydrochloric acid					
CAS No.	7647-01-0					
Formula	HCI					
Synonyms	Not available					
	uses of the substance or I	nixture a	and uses advised aga	inst		
Use of the substand						
Química Pima, S.A.	l ier of the safety data shee de C.V.	t				
Del Cobre 20, Parque	e Industrial Hermosillo					
Hermosillo, Sonora, I	México. C.P. 83297		Tel. 011 (662) 251-0	010 / (662) 251-0316		
ventas@qpima.com						
www.qpima.com						
1.4 Emergency telepho					\ <i></i>	
Emergency number			CHEMTREC (24HR	Emergency Telephone), call: 1-800-4	24-9300
SECTION 2 HAZARD I	DENTIFICATION					
2.1 GHS-US classificati	on					
May be corrosive to r	metals.	1	H290			
	ourns and eye damage.	1	H314			
Causes serious eye damage.		1	H318			
May cause respirator	y irritation.	3	H335			
2.2 Label elements						
GHS-US labelling	(0110 110)					
Hazard pictograms	(GHS-US)	<		>		
Signal Word (GHS-U	JS):	Dan	ger			
Hazard statement (C	GHS-US):	H29) May be corrosive to n	netals.		
		H314	4 Causes severe skin b	ourns and eye damage		
		H31	8 Causes serious eye c	lamage.		
		H33	5 May cause respirator	y irritation.		
Precautionary state	ments (GHS-US):		4 Keep only in original of			
			1 Avoid breathing dust/	•		
			4 Wash your hands tho			
		P27	1 Use only outdoors or	in a well-ventilated are	a.	



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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 [or 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 or doctor/physician.				
P363 Wash contaminated clothing before reuse.				
P390 Absorb spillage to prevent material damage.				
P403 Store in a well-ventilated place.				
P405 Store locked up.				
P406 Store in corrosive resistant container with a resistant inner liner.				
P501 Dispose of contents/container in accordance with federal, state, and				
local regulations.				
No data available				
Not applicable				

2.3 Other hazards

2.4 Unknown acute toxicity (GHS-US)

SECCIÓN 3.- COMPOSITION / INFORMATION OF INGREDIENTS

3.1 Substance		
Name	Product identifier	%
Hydrochloric acid	(CAS NO.) 7647-01-0	30 – 32
3.2 Mixture		
Not applicable		
SECCIÓN 4 FIRST AID MEASURE		
4.1 Description of first aid measure		
First-aid measures general	Check vital signs Unconscious: keen airway	s clear and provide breathing assistance

First-aid measures general	Check vital signs. Unconscious: keep airways clear and provide breathing assistance. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform CPR. Conscious victim with breathing difficulty: semi-upright position. Victim in shock: lying on back with legs slightly elevated. Vomiting: prevent choking or aspiration. Avoid cooling by covering the victim (without heating). Continue monitoring the victim. Provide psychological support. Keep the victim calm, and avoid physical strain. Depending on the victim's condition: seek medical attention/hospital. Never give anything by mouth to an unconscious person. If feeling unwell, seek medical attention (if possible, show the label).
First-aid measures after eye contact	Flush thoroughly with plenty of water for at least 15 minutes and seek medical attention. Remove contact lenses if present and easily removable. Continue rinsing eyes during transport to a medical facility.
First-aid measures after skin contact	As a precautionary measure, thoroughly wash the exposed area for at least 15 minutes. Remove contaminated clothing. Wash contaminated clothing before reuse. Consult a physician.



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First-aid measures after ingestion

Symptoms/injuries after inhalation

Symptoms/injuries after skin contact

Symptoms/injuries after eye contact

Symptoms/injuries after ingestión

If symptoms such as irritation of the nose or throat are observed, take the person to fresh air. Seek medical attention if the condition does not improve. Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse

mouth thoroughly with water. If vomiting occurs, keep head low so that stomach content does not get into the lungs. Seek medical advice.

Inhalation of dust can cause irritation of the throat and respiratory tract. It causes burns to the skin. It will cause severe burns (depending on the duration and amount of exposure). It will cause severe burns No data available.

4.3 Indications of any immediate medical attention and special treatment needed

No Data is available.

Chronic symptoms

4.2 Most important

SECCIÓN 5.- FIREFIGHTING MEASURES

5.1 Extinguishing media	
Suitable extinguishing media	Use extinguishing agents compatible with acid and appropriate for the burning material. Use water spray to keep exposed containers cool.
Unsuitable extinguishing media	No data available
5.2 Special hazard arising from the su	ibstance or mixture
Fire hazard	It releases flammable hydrogen gas when reacting with metals.
Explosion hazard	No data available
Reactivity	It releases flammable hydrogen gas when reacting with metals.
5.3 Advice for firefighters	
Precautionary measures fire	In case of fire/heating: stand against the wind. If exposed to fire/heat consider evacuation. In case of fire and/or explosion, do not breathe vapors.
Firefighting instructions	Use standard fire-fighting procedures and consider the hazards of other materials involved.
Protection during firefighting	Use a self-contained breathing apparatus and full protective clothing.

SECCIÓN 6.- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel	
Protective equipment	Use the recommended protective equipment in section 8.
Emergency procedures	Follow established emergency procedures. Only properly equipped, trained, and functional personnel should attempt to contain a leak. All other personnel should be evacuated from the
Measures in case of dust release	danger area. Avoid the formation of vapors/mist. In case of prolonged exposure and/or high concentrations
	of vapors in the air, use a half-face respirator, full-face respirator, or SCBA according to applicable regulations.

6.1.2 For emergency responders

Stop the leak if there is no risk. Do not touch spilled material. Use a water spray to control vapors. Avoid entry into sewers, basements, or confined areas; build a barrier if necessary. Request assistance for disposal. Neutralize the residue with a diluted solution of sodium carbonate. Ensure vapor is not present at a concentration level above TLV.



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6.2 Environmental precautions

Use closed systems when possible. Provide local exhaust ventilation where dust or fumes may be generated. Avoid spillage into drains, watercourses, or onto the ground.

6.3 Methods and material for containment and cleaning up

0.5 Methods and material for containin	ient and cleaning up
Method for containment	For small spills: Dilute with water and clean, or absorb with an inert dry material and place it in an appropriate container. For large spills: Use a water spray to control generated vapors.
	Build a barrier if necessary. Neutralize the residue with a diluted solution of sodium carbonate.
Method for cleaning up	Neutralize the residue with a diluted solution of sodium carbonate.
6.4 Reference to other sections	
For further information refer to section	n 8: Exposure-controls/personal protection
SECTION 7 HANDLING AND STORAG	GE
7.1 Precautions for safe handling	
Precautions for safe handling	Use appropriate personal protective equipment. Avoid contact with eyes, skin, and clothing. Do not breathe mist or vapor. Observe good industrial hygiene practices. Do not empty into drains. Be cautious when mixing with water; NEVER add water to acid, ALWAYS add acid to water while stirring to prevent the release of heat, vapor, and fumes.
Hygiene measures	Do not drink, eat, or smoke in the workplace. Always wash your hands after handling the product. Do not eat, drink, or smoke when using this product. Use local exhaust ventilation to keep airborne dust concentrations below permissible exposure levels. Wash hands before breaks and at the end of the workday. Remove and launder contaminated clothing.

7.2 Conditions for safe storage, including any incompatibilities

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Storage conditions	Store in a well-ventilated area. Store away from incompatible materials. Keep containers
	tightly closed in a clean, cool, well-ventilated area. Keep away from direct sunlight.
Incompatible products	Strong reducing agents.
Heat-ignition	It releases flammable hydrogen gas when reacting with metals.
Storage area	Store in a clean, cool, open, or well-ventilated area. Keep away from incompatible, flammable, or combustible materials. Keep away from direct sunlight.
Special rules on packaging	Store in a tightly sealed, dry, clean, and properly labeled container. Comply with applicable regulatory requirements. Secure fragile packaging in sturdy containers.
Packaging materials	No data available

7.3 Specific end use(s)

No additional information is available

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hydrochloric acid 7647-01-0	No data available	5 ppm 7.59 mg/m ³	No data available

8.2 Exposure controls

Appropriate engineering controls

Establishments storing or using this material should be equipped with eye wash stations and safety showers. Avoid the accumulation of vapors in the air.



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Personal protective equipment	Safety goggles, full-face respirator with organic vapor cartridges, gloves, protective clothing/suit/boots.		
Material for protective clothing	Neoprene, butyl rubber, or PVC are recommended.		
Hand protection	Use appropriate protective gloves to prevent skin exposure. Neoprene, butyl rubber, or PVC are recommended. Do not use materials made of natural fibers.		
Eye protection	Wear snug-fitting safety goggles. Use a face shield (minimum of 8 inches). Use eye protection equipment tested and approved under appropriate government standards, such as NIOSH (US) or EN 166 (EU).		
Skin and body protection	Wear suitable protective clothing to minimize skin contact. Neoprene, butyl rubber, or PVC are recommended. Do not use materials made of natural fibers.		
Respiratory protection	When risk assessment shows that respirators are appropriate, use a full-face respirator with organic vapor cartridges as a backup to existing engineering controls. If the respirator is the sole means of protection, use a self-contained breathing apparatus (SCBA). Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).		
Environmental exposure controls	Avoid release to the environment.		

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties		
Physical state	Liquid	
Appearance	Colorless to slightly yellow liquid	
Odor	Pungent (irritant/strong)	
Color	Colorless to slightly yellow	
Molecular mass	36.46 g/mol	
Odor threshold	0.3 ppm (It can cause olfactory fatigue)	
рН	< 1.0	
pH solution	No data available	
Relative evaporation rate (butyl acetate = 1)	No data available	
Melting/Freezing point	-30 °C (-22 °F)	
Boiling point	> 100 °C (> 212 °F)	
Flash point	No data available	
Self-ignition temperature	No data available	
Decomposition temperature	No data available	
Flammability (solid, gas)	Non-flammable	
Vapor pressure	84 mmHg	
Relative vapor density at 20 °C	1.267	
Relative density	1.15 – 1.16 (20 °C)	
Solubility	100% in water	
Log Pow	No data available	
Log Kow	No data available	
Viscosity, kinematic	No data available	
Viscosity, dynamic	No data available	
Explosive properties	No data available	



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Oxidizing properties Explosive limits 9.2 Other information No additional information is available Oxidizing material No data available

SECTION 10 STABILITY AND REACTIVITY			
10.1 Reactivity	This material is stable under normal handling and storage conditions.		
10.2 Chemical stability	This material is stable under normal handling and storage conditions.		
10.3 Possibility of hazardous reactions	This material is stable under normal handling and storage conditions.		
10.4 Conditions to avoid	Incompatible materials, metals, excessive heat, bases.		
10.5 Incompatible materials	Bases, amines, metals, permanganates, fluorine, metal acetylides, and hexalithium disilicide.		
10.6 Hazardous decomposition products	Hydrogen chloride, chlorine, gaseous hydrogen.		

SECTION 11.- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effe	cts						
Likely routes of exposure	Skin and eyes cont	Skin and eyes contact, inhalation, and ingestion.					
Acute toxicity	Will cause burns (d	epending on expos	sure time and amou	nt).			
Skin corrosión/irritation	Causes burns to the	e skin.					
Serious eye damage/irritation	Causes eye burns.	Causes eye burns.					
Respiratory or skin sensitization	The vapors and mis	The vapors and mist will irritate the throat and respiratory system and cause coughing.					
Germ cell mutagenicity	No data available	No data available					
Carcinogenicity	No data available	No data available					
Reproductive toxicity	No data available	No data available					
Specific target toxicity (single expos	sure) Inhalation toxicity is	Inhalation toxicity is the main route of exposure.					
Specific target toxicity (repeat expo	sure) No data available	No data available					
Aspiration hazard	After inhaling vapor	After inhaling vapors, the respiratory tract may become irritated.					
Name	LD ₅₀ oral	L	D ₅₀ dermal	LC ₅₀ inhalation			
Hydrochloric acid	No data available	5010	mg/kg (rabbit)	3124 ppm (1 h, rat)			

SECTION 12.- ECOLOGICAL INFORMATION

12.1 Toxicity

Ecology – GeneralNo data availableEcology – AirNo data availableEcology – WaterDue to the low pH of this product, significant ecotoxicity is expected upon exposure to aquatic
organisms and aquatic systems. This material is toxic to fish and aquatic organisms. Most aquatic
species do not tolerate a pH lower than 5.5 for an extended period.
EC50 Gambusia affinis (282 mg/l, 96 h).
EC50 Eel (3.6 mg/l, 48 h)



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12.2 Persistence and degradability

It is not biodegradable. Hydrochloric acid will likely be neutralized to chloride by the alkalinity present in the natural environment.

12.3 Bioacumulative potential

No data available

12.4 Mobility in soil

Hydrochloric acid will be neutralized by natural alkalinity. The acid will penetrate the soil, dissolving some soil material, and then neutralize.

12.5 Other adverse effects

Other information

SECCIÓN 13.- INFORMACIÓN RELATIVA A LA ELIMINACIÓN DE LOS PRODUCTOS

13.1 Waste treatment methods

Waste treatment methods

Collect and reclaim or dispose in sealed containers at an authorized waste disposal site. This material, if not neutralized, must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water sources. Do not contaminate ponds, waterways, or ditches with chemical containers or used ones. Dispose of contents/containers following local/regional/national/international regulations. Dispose of waste material following local, regional, national, and international regulations.

Waste disposal recommendations [

SECTION 14.- TRANSPORT INFORMATION

I.1 UN Number	1789
4.2 UN proper shipping name	HYDROCHLORIC ACID
4.3 Class of hazards in transportation	8
4.4 Packaging group	ll
4.3 Additional information	1789
Other information	No supplementary information is available.
Overland transport	No additional information is available.
Transport by sea	No additional information is available.
Air transport	No additional information is available.

International inventories

TSCA Hydrochloric acid CAS 7647-01-0

Abbreviations

TSCA – Toxic Substances Control Act Inventory Section 8(b).

DSL/NDSL - Domestic Substance List/Non-Domestic Substance List.

US Federal Regulations: This product does not contain chemicals that are subject to the reporting requirements of the Emergency Planning and Community Right-to-Know Act and Title 40 of the Code of Federal Regulations, Part 372.



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SARA 311/312 Categories. Acute Health Hazard Sudden Hazardous Pressure Release		Yes	Chronic Health	Hazard	No Fire Hazard	No		
		e No	Reactive Hazar	d	Yes			
lean Water	Act. No data available							
ERCLA. Hy	drochloric acid CAS 7647	'-01-0						
fficial Mexi	ican Standard NOM-002-	SCT/20	11, List of the Mos	st Com	monly Transported Hazar	dous	Substances and Materials	
SECTION 1	6 OTHER INFORMATIO	ON						
NFPA	NFPA health Hazard	3 N	IFPA fire Hazard	0	NFPA instability Hazard	1	NFPA Special hazard	CORR
HMIS III	Health	3 F	lammability	0	Physical	1	Personal protection	G
			Splash goggles	s, glove	s, and vapor respirator.			
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Made for:	Química Pima, S.A. c	le C.V. D	el Cobre No. 20 Pa	rque Inc	lustrial. Hermosillo, Sonora,	Méxic	o. 83297.	
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End of Safety Data Sheet