Safety Data Sheet

Unknown No. 1 (Hydrochloric Acid, 1M)

CAROLINA www.carolina.co

Section 1

Product Description

Product Name: Recommended Use: Synonyms: Distributor:

Unknown No. 1 (Hydrochloric Acid, 1M) Science education applications **Muriatic Acid** Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;



Section 2



Harmful if swallowed. Causes severe skin burns and eye damage. Causes serious eye damage. Toxic if inhaled.

GHS Classification:

Skin Corrosion/Irritation Category 1A, Serious Eye Damage/Eye Irritation Category 1, Acute Toxicity - Inhalation Vapor Category 3, Acute Toxicity - Oral Category 4

Composition / Information on Ingredients

<u>Chemical Name</u>	<u>CAS #</u>	<u>%</u>
Water	7732-18-5	96.86
Hydrochloric acid	7647-01-0	3.14
Hydrochione acid	7647-01-0	3.14

Section 4

Section 3

First Aid Measures

Inhalation:	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Eyes:	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin Contact:	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
Ingestion:	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
Section 5	Firefighting Procedures

Extinguishing Media:	Water fog in flooding quantities. Apply water from as far a distance as possible.
Fire Fighting Methods and Protection:	Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards:	Fire or excessive heat may produce hazardous decomposition products.
Hazardous Combustion Products:	Hydrogen chloride

Section 6

Spill or Leak Procedures

Safety Data Sheet

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation. Use an inert absorbent such as sand or vermiculite. Place in properly labeled closed container.

Section 7

Handling and Storage

Handling:	Do not breathe dust/fume/gas/mist/vapors/spray. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Do no eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep container tightly closed in a cool, well-ventilated place.
Storage Code:	White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8 **Protection Information**

	ACC	ЭIН	OSHA	PEL	
Chemical Name	<u>(TWA)</u>	<u>(STEL)</u>	<u>(TWA)</u>	(STEL)	
Hydrogen Chloride	N/A	N/A	N/A	N/A	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE): Respiratory Protection:	Lab coat, apron, eye wash, safety shower.				
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.				
Eye Protection:	Wear chemical splash available.	goggles when handling	this product. Have an	eye wash station	
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.				
Gloves:	Butyl rubber, Natural la	atex,, Nitrile, Neoprene			
Section 9	Physic	al Data			

Formula: See Section 3 Molecular Weight: 36.46 (Hydrogen Chloride) Appearance: Colorless Liquid **Odor:** None Pungent Odor Threshold: No data available **pH:** 0.1 Melting Point: No data available Boiling Point: No data available Flash Point: No data available Flammable Limits in Air: No data available

Physical Data

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: No data available Solubility in Water: No data available Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

Section 10

Reactivity Data

Reactivity: Chemical Stability: Conditions to Avoid: **Incompatible Materials: Hazardous Decomposition Products:** Hazardous Polymerization:

Not generally reactive under normal conditions. Stable under normal conditions. None known. Water-reactive materials Hydrogen chloride Will not occur

Section 11

Toxicity Data

Symptoms (Acute): No data available **Delayed Effects: Pulmonary Edema**

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Safety Data Sheet

Acute Toxicity: Chemical Name Water Hydrochloric acid		CAS Number 7732-18-5 7647-01-0	Oral LD50 Oral LD50 Rat 90000 mg/kg Oral LD50 Rabbit 900 mg/kg	Dermal LD50	Inhalation LC50 INHALATION LC50 Rat 3700 ppm INHALATION LC50 Mouse 1108 ppm INHALATION LC50 Rat 45000 MG/M3 INHALATION LC50 Rat 8300 MG/M3	
Carcinogenicity: Chemical Name No data available		CAS Number	IARC Not listed	NTP Not listed	OSHA Not listed	
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a m No evidence of a te No evidence of a se No evidence of neg No data available No data available	ratogenic effect (bir ensitization effect. ative reproductive e				
Section 12		3	cological Data			
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. This material is expected to have very high mobility in soil. It does not absorb to most soil types. No data Bioconcentration is not expected to occur. No data No data					
Chemical Name Water Hydrogen Chloride		CAS Number 7732-18-5 7647-01-0	Eco Toxicity No data available Aquatic LC50 (96h) Mos	squitofish (Gambusia	affinis) 282 MG/L	
Section 13		Disp	oosal Informati	on		
Disposal Methods:	Disp	oose in accordance	with all applicable Feder	ral, State and Local re	egulations. Always	
Waste Disposal Code(s			ste disposer (TSD) to ass ct is considered a RCRA		02.	
Section 14		Tran	sport Informat	ion		
Ground - DOT Proper S UN 1789Hydrochloric Aci			Air - IATA Proper S UN 1789 Hydrochloric Acid P.G. III Class 8	hipping Name:		
Section 15		Regu	latory Informat	tion		
TSCA Status:	All c	components in this p	product are on the TSCA	Inventory.		

Salety Data Sheet						
Chemical N	ame CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Hydrochloric	acid 7647-01-0	Hydrochloric acid	5000 lb RQ	5000 lb final RQ; 2270 kg final RQ	500 lb TPQ (gas only)	No
California Pro	p 65:	I	No California F	Proposition 65 ingr	edients	
Section	Section 16			Additio Informa		
Revised: 08/21/2018 Replaces: 07/		laces: 07/18/2018		Printed: 08	3-25-2018	
available to u	on provided in this (Material) Safety s. Carolina Biological Supply makes the substance covered in the (Mate	no representation o	r guarantee as			
Glossary						
ACGIH	•		NTP OSHA	National Toxicology Program Occupational Safety and Health Administration		
CAS	Chemical Abstract Service Num	ber	PEL	Permissible Exposure Limit		
CERCLA	Comprehensive Environmental I		ppm	Parts per million		
	Compensation, and Liability Act		RCRA	Resource Conservation and Recovery Act		
DOT	U.S. Department of Transportati		SARA	Superfund Amendments and Reauthorization A		
IARC		gency for Research on Cancer T		Threshold Limit Value		
N/A	Not Available		TSCA	Toxic Substance		

TSCA IDLH

Immediately dangerous to life and health

Safety Data Sheet