## Hydrochloric Acid, 6M



#### **Section 1**

#### **Product Description**

Product Name: Recommended Use: Synonyms: Distributor: Chemical Information: Chemtrec: Hydrochloric Acid, 6M Science education applications Muriatic Acid Carolina Biological Supply Company, 2700 York Road, Burlington, NC 27215-3398 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

#### **Section 2**

**Hazard Identification** 

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

# DANGER



Causes severe skin burns and eye damage. Causes serious eye damage.

#### **GHS Classification:**

Skin Corrosion/Irritation Category 1B, Serious Eye Damage/Eye Irritation Category 1

Section 3	Composition / Information on Ingredients				
<u>Chemical Name</u> Water Hydrogen Chloride	CAS #%7732-18-581.47647-01-018.6				
Section 4	First Aid Measures				
Eyes: IF IN EYES: Rin to do. Continue   Skin Contact: IF ON SKIN (or water/shower. Not state)	ve victim to fresh air and keep at rest in a position comfortable for brea cautiously with water for several minutes. Remove contact lenses, if pr ing. ): Remove/Take off immediately all contaminated clothing. Rinse skin n contaminated clothing before reuse. nse mouth. Do NOT induce vomiting.	resent and easy			
Section 5	Firefighting Procedures				
Extinguishing Media: Fire Fighting Methods and Protection:	Water fog in flooding quantities. Apply water from as far a distance as possible. Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.				
Fire and/or Explosion Hazards: Hazardous Combustion Products:	Fire or excessive heat may produce hazardous decomposition products. Flammable Hydrogen gas may be produced over long periods of exposure to Aluminum, Tin, Lead, and Zinc.				
	ydrogen chloride				

#### **Section 6**

#### Spill or Leak Procedures

Steps to Take in Case Material Is Released or Spilled:

Exposure to the spilled material may be severely irritating or toxic. Follow personal protective equipment recommendations found in Section 8 of this SDS. Personal protective equipment needs must be evaluated based on information provided on this sheet and the special circumstances created by the spill including; the material spilled, the quantity of the spill, the area in which the spill occurred, and the expertise of employees in the area responding to the spill. Never exceed any occupational exposure limits.

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. If this material is released into a work area, evacuate the area immediately.

### Section 7

### Handling and Storage

Handling:

Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Store locked up. Keep container tightly closed in a cool, well-ventilated place.

Storage: Storage Code:

**de:** White - Corrosive. Separate acids from bases; separate oxidizer acids from organic acids.

Section 8	Protection Information			
	ACGIH		OSHA PEL	
Chemical Name	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	<u>(STEL)</u>
Hydrogen Chloride	N/A	2 ppm (Ceiling)	N/A	5 ppm (Ceiling)
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:	Respiratory protection may be required to avoid overexposure when handling this product. General or local exhaust ventilation is the preferred means of protection. Use a respirator if general room ventilation is not available or sufficient to eliminate symptoms.			
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 goggles when handling this product. Have an eye wash station available.			
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:	Natural latex,, Butyl rubber, Nitrile, Neoprene			

Section 9

#### Physical Data

Formula:	Vapor Pressure: No data available
Molecular Weight: 36.46 (Hydrochloric Acid)	Evaporation Rate (BuAc=1): 2.0
Appearance: Colorless Liquid	Vapor Density (Air=1): No data available
Odor: Strong Pungent	Specific Gravity: >1
Odor Threshold: No data available	Solubility in Water: Soluble
<b>pH:</b> -0.7	Log Pow (calculated): No data available
Melting Point: No data available	Autoignition Temperature: No data available
Boiling Point: No data available	Decomposition Temperature: No data available
Flash Point: No data available	Viscosity: No data available
Flammable Limits in Air: No data available	Percent Volatile by Volume: No data available
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#### Section 10

Reactivity: Chemical Stability: Conditions to Avoid: Incompatible Materials:

Hazardous Decomposition Products: Hazardous Polymerization:

### **Reactivity Data**

Mildly reactive - See below Stable under normal conditions. Reaction with water is exothermic. Water-reactive materials, Water, Caustics (bases), Oxidizing materials, Acetic anhydride, Amines, Alkanolamines, Isocyanates, Copper, Metals Hydrogen chloride Will not occur

Section 11		Toxic	ity Data		
	Inhalation and inges Respiratory Irritation No data available	tion.			
Acute Toxicity: Chemical Name Water Hydrogen Chloride		<b>CAS Number</b> 7732-18-5 7647-01-0	Oral LD50 Not applicable ORAL LD50 Rat 700 mg/kg	Dermal LD50 DERMAL LD50 Rabbit > 5010 mg/kg	Inhalation LC50 INHALATION LC50-1H Rat 3124 ppm
Carcinogenicity: Chemical Name Hydrogen Chloride		CAS Number 7647-01-0	IARC Not listed	NTP Not listed	OSHA Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a mu No evidence of a ter No evidence of a se No evidence of nega No information av No information av	atogenic effect (bir nsitization effect. ative reproductive e vailable	,		
Section 12		=	cological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	wildlife. This materia	-	n concentrations, this pr ve high mobility in soil. I lissolved in water.		
<b>Chemical Name</b> Water Hydrogen Chloride		<b>CAS Number</b> 7732-18-5 7647-01-0	Eco Toxicity No data available 96 HR LC50 GAMBUS	IA AFFINIS 282 MG/L	.[STATIC]
Section 13		Disp	oosal Informat	ion	
Disposal Methods: Waste Disposal Code(s	cont	act a permitted was	with all applicable Fede ste disposer (TSD) to as ct is considered a RCR/	sure compliance.	
Section 14		Tran	sport Informat	tion	
Ground - DOT Proper S UN1789 Hydrochloric Acid Class 8 P.G. II	hipping Name:		Air - IATA Proper 3 UN1789 Hydrochloric Acid Class 8 P.G. II	Shipping Name:	
Section 15		Regu	latory Informa	tion	
TSCA Status:	All c	omponents in this	product are on the TSC	A Inventory.	
Chemical Name	CAS	8 313 Nam	• • • • • • • • • • • • • • • • • • •		ΡΟ CAA 112(2)

### Section 16

#### **Additional Information**

#### Revised: 03/19/2013

#### Replaces: None

#### Printed: 06-21-2013

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health