SDS No.: HH0093

SAFETY DATA SHEET

CORROSIVE STORAGE CODE WHITE

Page E1 of E2

Section 1

Identification

hand²

500 Greenview Court Vernon Hills, Illinois 60061-1862 Phone: (847) 968-5050 **CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Synonyma Muriatic Acid, Water Solution; Hydrogen Chloride, Water Solution Section 2 Hazards identification Signal word: WARNING Pictograms: None required Target organs: Respiratory system, skin, eyes, lungs. Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P331: IF IN EVES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If shi inritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention. GHS Label information: Hazard statement(s): H316: Causes wild skin irritation. H320: Causes eye irritation. P37+P313: If eye irritation persists: Get medical attention.	Product HYDROCHLORIC ACID, 0.5 MOLAR (0.5 NORMAL) SOLUTION	
Signal word: WARNING Pictograms: None required Target organs: Respiratory system, skin, eyes, lungs.Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.GHS Label information: Hazard statement(s): H316: Causes mild skin irritation.H316: Causes mild skin irritation.	Synonyms Muriatic Acid, Water Solution; Hydrogen Chloride, Water Solution	
Pictograms: None required P264: Wash hands thoroughly after handling. Target organs: Respiratory system, skin, eyes, lungs. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. GHS Classification: P302+P313: If skin irritation occurs: Get medical attention. Skin irritant (Category 3) P337+P313: If eye irritation persists: Get medical attention. Eye irritant (Category 2B) P337+P313: If eye irritation persists: Get medical attention. GHS Label information: Hazard statement(s): H316: Causes mild skin irritation. H316: Causes mild skin irritation.	Section 2 Hazards identification	
	Pictograms: None required Target organs: Respiratory system, skin, eyes, lungs. GHS Classification: Skin irritant (Category 3) Eye irritant (Category 2B) GHS Label information: Hazard statement(s): H316: Causes mild skin irritation.	P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention.

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Water Hydrochloric acid		7732-18-5 7647-01-0	98.44% 1.56%	231-791-2 231-595-7	
Section 4	First aid measures				

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: Carbon dioxide, dry chemical, dry sand, alcohol foam.

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Contact with metals produce hydrogen, which is flammable and may produce explosive mixtures with air.

Section 6 Accidental release measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Neutralize spill with sodium bicarbonate or calcium hydroxide, absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling and storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale vapors, spray or mist. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, well-ventilated area away from incompatible substances.

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m ³	STEL: C 5 ppm / C 7 mg/m ³	STEL: C 5 ppm / C 7 mg/m ³			

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

approved respirator	r.						
Section 9	Physical and chemical pro	perties					
	or. Data not available. noint: Approx. 0°C (32°F) [water] prox. 100°C (212°F) [water]	Flammability (s Explosion limit Vapor pressure Vapor density (Relative densit	te (=1): Data not a solid/gas): Data not a s: Upper/Lower: Da (mm Hg): 14 [water Air = 1): 0.7 [water] y (Specific gravity): Soluble in water.	available. ata not available.]	Auto-igniti Decompos Viscosity: Molecular	ion temperature	e
Section 10	Stability and reactivity						
Incompatible mate formaldehyde.	: Stable id: Containers may burst when he prials: Metals, bases, active meta position products: Hydrogen ch	eated. Avoid cont ls, alkali metals, o			oonates, cyan	ides, sulfides, sul	lfites,
	, , ,	lionue gas.					
Serious eye dama Respiratory or ski Germ cell mutage Carcinogenity: Da NTP: No compone IARC: Group 3: No OSHA: No compor Ca Prop 65: This pir Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health ef Exercise appropriat Inhalation: May be Ingestion: May be Skin: May cause i Signs and sympto	itation: Data not available at this ge/irritation: Data not available a n sensitization: Data not availab nicity: Data not available	at this dilution. le greater than or e city to humans. ls greater than or icals known to the lution. lge the chemical, al hazards. cause irritation to able at this dilution	r equal to 0.1% is ide a State of California to physical and toxicolo the tissue of the muc	ntified as a carcinoge o cause cancer or re gical properties have	en or potential productive tox e not been tho	carcinogen by O icity. roughly investiga	SHA.
	•						
Toxicity to daphnia Toxicity to algae: I Persistence and d Mobility in soil: N Other adverse effe	egradability: No data available o data available ects: An environmental hazard ca	es: No data availa Bioaccumu PBT and vF	able lative potential: No PvB assessment: No	data available o data available	r disposal.		
Section 13	Disposal considerations						
	uidelines are intended for the c be different. Dispose of in acco Transport information						
UN/NA number: Hazard class: 8 Exceptions: Lir	UN1789 Shipping r	•	Reporta	ble Quantity: No G Guide # 157		Ma	arine pollutant: No
Section 15	Regulatory information						
	red to be listed if the CAS number for t		•		DC'	NDO	
Compor	ient	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Hydrochloric acid		Listed	Not listed	D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook. Form 06/2015