# GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

### INNOVATING SCIENCE<sup>®</sup> by Aldon 221 ROC 21 ROC

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Aldon 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

CALCIUM CARBONATE Product Synonyms Marble Chips / Boiling Chips / Marble Rocks / Limestone Chips Section 2 Hazards identification Signal word: WARNING Precautionary statement: Pictograms: GHS08 P260: Do not breathe dust. Target organs: None known P314: Get medical advice/attention if you feel unwell. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. GHS Classification: \*STOT-RE (Category 2) GHS Label information: Hazard statement: \*H373: May cause damage to organs (lungs) through prolonged or repeated exposure (inhalation). \* Respirable dust particles containing crystalline silica may be generated by crushing. There are no known hazards associated with this material when used as recommended.

### Hazards not otherwise classified:

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			
Calcium carbonate Quartz		1317-65-3 14808-60-7	≥ 99% 0.1-1.0%	215-279-6 238-878-4			
Section 4	First aid measures						

**INGESTION:** 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: PROLONGED INHALATION OF PARTICULATE DUST MAY BE HARMFUL. 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 ABRASIONS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

### Section 5 Fire fighting measures

Suitable Extinguishing Media: Product will not burn or support fire. Use any media suitable for extinguishing supporting fire

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: Limestone reacts with acids to release carbon dioxide.

## 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: 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. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area.

Section 8 Exposure controls / personal protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits.	Particulates not otherwise classified	TWA: 5 mg/m <sup>3</sup> respirable fraction	None established	None established			

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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Physical and chen	nical properties					
Odor: No odor. Odor threshold: I pH: Data not avail	<b>g point:</b> Data not availab Ita not available	Flammability ( Explosion limit Vapor pressure le Vapor density Relative densit	te (=1): Not applica solid/gas): Data not a sts: Lower / Upper: N e (mm Hg): Data not av (Air = 1): Data not av y (Specific gravity): 0.001% @ 0°C in wa	available. lot flammable available ailable 2.85	Auto-ignitio Decomposi Viscosity: 1 Molecular fo		: Not applicable <b>ire:</b> 826°C (1520°F) ble. 03
Section 10	Stability and react	ivity					
Chemical stability Conditions to avo	<ul> <li>y: Stable</li> <li>oid: Avoid contact with ac</li> </ul>		us polymerization: \	Will not occur.			
ncompatible mat	terials: Reacts with acids	to liberate carbon dioxide	e.				
Hazardous decon	mposition products: Ca	bon dioxide.					
Section 11	Toxicological info	rmation					
IARC classified: G OSHA: No compor Ca Prop 65: A Reproductive tox STOT-single expo STOT-repeated ex	a human carcinogen (res froup 1: Carcinogenic to h nent of this product preser ARNING! This product car (icity: Data not available osure: Data not available xposure: Inhalation - Ma	umans. [crystalline silica]* nt at levels greater than or n expose you to a chemica	equal to 0.1% is identi al, crystalline silica, wh	ich is known to the	State of Californ	nia to cause car	
Potential health of Inhalation: Dust m Ingestion: Ingestio Skin: May cause Eyes: May cause Signs and sympt changes and milia	d: Data not available affects: nay cause congestion and on may cause gastrointes abrasions. mild to severe irritation by coms of exposure: Prolo ury nodules in the lungs, a	irritation in nasal and res tinal irritation and blockag vabrasion with dust or chi nged inhalation of particul dry cough, shortness of b	piratory passages. e. ps. ate dust, may result in	silicosis, a disablin	g pulmonary fibr	osis characteri	
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Section 1

Identification

# INNOVATING SCIENCE® by Aldon 221 Ref

"Cutting edge science for the classroom"

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# CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300

For laboratory and industrial use only. Not for drug, food or household use.

## HYDROCHLORIC ACID, 1 MOLAR (1 NORMAL) SOLUTION Product Synonyms Muriatic Acid, Water Solution / Hydrogen Chloride, Water Solution Section 2 Hazards identification Signal word: WARNING Precautionary statement(s): Pictograms: GHS05 P234: Keep only in original container. Target organs: Respiratory system, skin, eyes, lungs. 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. P390: Absorb spillage to prevent material damage. **GHS Classification:** P406: Store in corrosive resistant container with a resistant inner liner. Corrosive to metals (Category 1) Skin irritant (Category 3) Eye irritant (Category 2B) GHS Label information: Hazard statement(s): H290: May be corrosive to metals. H316: Causes mild skin irritation. H320: Causes eye irritation. Hazards not otherwise classified: 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	96.86% 3.14%	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: 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)				
Exposure Linits.	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>				

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.							
Section 9	Physical and chemical pro	perties					
Appearance: Clear, Odor: No odor. Odor threshold: No pH: No data availabl Melting / Freezing p Boiling point: ~ 100 Flash point: Not flar Evaporation rate ( =	data available e <b>oint:</b> ~ 0°C (~ 32°F) [water] °C (212°F) [water] nmable.	Explosion lin Vapor pressu Vapor density Relative dens Solubility(ies Partition coeffi	(solid/gas): No data a its: Upper/Lower: No re (mm Hg): 14 [water] (/Air = 1): 0.7 [water] ity (Specific gravity): : Complete. cient: (n-octanol / water): temperature: No data	o data available   1.0 [water] No data available	Viscosity: Molecular	sition temperatu No data availabl formula: Mixture weight: Mixture	e.
Section 10	Stability and reactivity						
	Containers may burst when he	eated. Avoid co					
formaldehyde.	als: Metals, bases, active meta		, oxidizing agents, hydro	oxides, amines, carl	bonates, cyani	des, sulfides, sulf	ītes,
•	osition products: Hydrogen ch	lloride gas.					
Section 11	Toxicological information						
Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: Group 3: Not OSHA: No compone Ca Prop 65: This pro- Reproductive toxici STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effe Exercise appropriate Inhalation: May be ha Skin: May cause irrit Signs and symptom Additional informati	tion: Data not available at this dirritation: Data not available sensitization: Data not available isensitization: Data not available city: Data not available of this product present at levels classifiable as to its carcinogeni nt of this product present at level duct does not contain any chem ty: Data not available Data not available Data not available cts: To the best of our knowled procedures to minimize potentia armful if inhaled. Material may armful if swallowed. ation and/or burns. tation and/or burns. ation and/or burns. s of exposure: Data not available on: RTECS #: MW4025000 [h	at this dilution. le greater than or city to humans. ls greater than icals known to the lution. lge the chemica al hazards. cause irritation the solute at this dilution	or equal to 0.1% is iden the State of California to , physical and toxicolog o the tissue of the muco	iffied as a carcinoge cause cancer or rep ical properties have	en or potential productive toxi e not been thor	carcinogen by OS city. roughly investigat	
Section 12	Ecological information						
Toxicity to daphnia Toxicity to algae: No Persistence and dec Mobility in soil: No	radability: No data available	s: No data avai Bioaccum PBT and v	lable ulative potential: No c PvB assessment: No	lata available data available	r disposal.		
Section 13	Disposal considerations						
	delines are intended for the or different. Dispose of in acco <b>Transport information</b>						
UN/NA number: Hazard class: 8 Exceptions: Limi		ng group: II	lydrochloric acid I	Reportable Qua 2020 ERG Guid		lbs (2270 kg)	Marine pollutant: No
Section 15	Regulatory information						
A chemical is considered Compone	to be listed if the CAS number for t	he anhydrous forn TSCA	t is on the Inventory list.	RCRA code	DSL	NDSL	CA Prop 65
Hydrochloric acid		Listed	5000 lbs (2270 kg)	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	d herein is furnished without warrar	ty of any kind Er	nplovers should use this in	formation only as a su	ipplement to othe	er information dathe	ered by them and must make indepen-

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

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Section 1

Identification

# "Cutting edge science for the classroom" by Aldon "Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

### CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product HYDROCHLORIC ACID, 3 MOLAR (3 NORMAL) SOLUTION	
<b>Synonyms</b> Muriatic Acid, Water Solution ; Hydrogen Chloride, Water Solution	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: GHS05 Farget organs: Respiratory system, skin, eyes, lungs.	Precautionary statement(s): P234: Keep only in original container. 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. P390: Absorb spillage to prevent material damage. P406: Store in corrosive resistant container with a resistant inner liner.

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	90.57% 9.43%	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)				
Exposure Limits.	Hydrogen chloride	STEL: C 2 ppm / C 2.98 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>	STEL: C 5 ppm / C 7 mg/m <sup>3</sup>				

**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.							
Section 9	Physical and chemical pr	operties					
	ta not available. int: Approx. 0°C (32°F) [water] ox. 100°C (212°F) [water]	Flammability (s Explosion limits Vapor pressure Vapor density ( Relative density	e (=1): Data not a olid/gas): Data not s: Upper/Lower: Da (mm Hg): 14 [water Air = 1): 0.7 [water] y (Specific gravity): Soluble in water.	available. ata not available. ]	Auto-ignit Decompos Viscosity: Molecular	ion temperature:	
Section 10	Stability and reactivity						
Incompatible matering formaldehyde.	: Containers may burst when h ials: Metals, bases, active meta	eated. Avoid cont als, alkali metals, c			bonates, cyan	ides, sulfides, sulf	ites,
Hazardous decomp	osition products: Hydrogen c	nloride gas.					
Section 11	Toxicological information						
Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: Group 3: Not OSHA: No compone Ca Prop 65: This pro Reproductive toxici STOT-single exposi STOT-repeated expi Aspiration hazard: Potential health effe Exercise appropriate Inhalation: May be ha Skin: May cause irrit Eyes: May cause irrit Signs and symptom	ation: Data not available at this e/irritation: Data not available sensitization: Data not availa city: Data not available a not available cof this product present at level classifiable as to its carcinogen int of this product present at level duct does not contain any cherrity: Data not available ure: Data not available Data not available posure: Data not available cosure: To the best of our knowler procedures to minimize potenti armful if inhaled. Material may armful if swallowed. ation and/or burns.	at this dilution. ble s greater than or e city to humans. els greater than or iicals known to the ilution. dge the chemical, al hazards. cause irritation to able at this dilutior	equal to 0.1% is ide 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	carcinogen by OS icity. roughly investigate	
Section 12	Ecological information						
Toxicity to daphnia Toxicity to algae: No Persistence and deg Mobility in soil: No	gradability: No data available	es: No data availa Bioaccumu PBT and vP	ative potential: No vB assessment: No	data available o data available	r disposal.		
Section 13	Disposal considerations						
These disposal qui	delines are intended for the o different. Dispose of in acc <b>Transport information</b>	disposal of catalo	og-size quantities o ocal, state and fed	only. Federal regul eral regulations or	ations may a contract with	apply to empty co n a licensed che	ontainer. State and/or local mical disposal agency.
UN/NA number: Hazard class: 8 Exceptions: Lim		<b>ping name:</b> Hy ing group: III s than 5 Lt	drochloric acid	Reportable Qua 2020 ERG Guid		) lbs (2270 kg)	Marine pollutant: No
Section 15	Regulatory information						
	d to be listed if the CAS number for						
Compone	nt	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.

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Section 1

Identification

### INNOVATING SCIENCE® by Aldon 221 Roc Avon, N

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177

## CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product HYDROCHLORIC ACID, 6 MOLAR (6 NORMAL)	
Synonyms Muriatic Acid, Water Solution ; Hydrogen Chloride, Water Solution	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: GHS05 / GHS07 Target organs: Respiratory system, skin, eyes, lungs.	<ul> <li>Precautionary statement(s):</li> <li>P234: Keep only in original container.</li> <li>P261: Avoid breathing mist/vapours/spray.</li> <li>P264: Wash hands thoroughly after handling.</li> <li>P271: Use only outdoors or in a well-ventilated area.</li> <li>P280: Wear protective gloves/protective clothing/eye protection/face protection.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P302+P352: IF ON SKIN: Wash with plenty of soap and water.</li> <li>P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.</li> <li>P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P337+P313: If eye irritation persists: Get medical attention.</li> <li>P362+P364: Take off contaminated clothing and wash before reuse.</li> <li>P390: Absorb spillage to prevent material damage.</li> <li>P403+P233: Store in a well-ventilated place. Keep container tightly closed.</li> <li>P405: Store locked up.</li> <li>P406: Store in corrosive resistant container with a resistant inner liner.</li> <li>P501: Dispose of contents/container to a licensed chemical disposal company in accordance with local/regional/national regulations.</li> </ul>

### Hazards not otherwise classified:

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	81.2% 18.8%	231-791-2 231-595-7			
Section 4	First aid measures						

**INGESTION:** 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. CAUSES RESPIRATORY IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES SEVERE IRRITATION AND/OR BURNS. 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: CAUSES SEVERE IRRITATION AND/OR BURNS. 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, dry, well-ventilated area away from incompatible substances. Protect from physical damage and sunlight. Protect from moisture.

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

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: Use a chemical fume hood and/or wear a NIOSH/MSHA-approved respirator.

Physical and chemical properties Section 9 Appearance: Clear, colorless liquid. Evaporation rate ( = 1): Data not available. Partition coefficient: (n-octanol / water): Data not available. Odor: Pungent odor. Flammability (solid/gas): Data not available. Auto-ignition temperature: Data not available Odor threshold: Data not available. Explosion limits: Upper/Lower: Data not available. Decomposition temperature: Data not available. Vapor pressure (mm Hg): 190 @ 25°C (77°F) Viscosity: Data not available. pH: Approximately 1 Melting / Freezing point: < -40°C (-40°F) Vapor density (Air = 1): Data not available. Molecular formula: Mixture Boiling point: >100°C (212°F) Relative density (Specific gravity): 1.18 Molecular weight: Mixture Flash point: Not flammable. Solubility(ies): Soluble in water. Section 10 Stability and reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Containers may burst when heated. Avoid contact with water. Incompatible materials: Metals, bases, active metals, alkali metals, oxidizing agents, hydroxides, amines, carbonates, cyanides, sulfides, sulfites, formaldehvde. Hazardous decomposition products: Hydrogen chloride gas. Section 11 **Toxicological information** Acute toxicity: Data not available Skin corrosion/irritation: Skin-rabbit - causes burns. Serious eye damage/irritation: Eyes-rabbit - Corrosive to eyes. Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available 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. IARC: Group 3: Not classifiable as to its carcinogenicity to humans. 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. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Material is extrememy destructive to the tissue of the mucous membranes and upper respiratory tract. Indestion: May be harmful if swallowed. Skin: May be harmful if absorbed through skin. Causes skin burns. Eves: Causes eve burns. Signs and symptoms of exposure: 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. Additional information: RTECS #: MW4025000 Section 12 **Ecological information** Toxicity to fish: LC50 - Gambusia affinis (Mosquito fish) - 282 mg/l - 96 h (Hydrochloric acid) Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 **Disposal considerations** These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Transport information Section 14 UN/NA number: UN1789 Shipping name: Hydrochloric acid Hazard class: 8 Reportable Quantity: No Packing group: || Marine pollutant: No 2020 ERG Guide # 157 Exceptions: Limited quantity equal to or less than 1 Lt Section 15 **Regulatory information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. DSL RCRA code NDSL Component TSCA CERLCA (RQ) CA Prop 65 This product does not contain Hydrochloric acid Listed Not listed D002 Listed Not listed 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