SAFETY DATA SHEET

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Section 1

Product

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

BUFFER SOLUTION, PH4 (RED COLOR CODED)

By Aldon Corporation 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.

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

Synonyms Standard Buffer Solution, pH 4.00	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: None required Target organs: None known GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B)	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. 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 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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: 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: Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

Suitable Extinguishing Media: 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: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

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 Limits.	Acetic acid	TWA: 10 ppm ; 25 mg/m ³	TWA: 10 ppm ; 25 mg/m ³	TWA: 10 ppm ; 25 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.

Section 9 Physical and chemical pro	operties	
Appearance: Clear, red liquid. Odor: Vinegar-like odor. Odor threshold: Data not available. pH: 4.0 Melting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability and reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Oxidizing agents, such as hydrogen peroxide, nitric acid, perchloric acid or chromium trioxide. Strong alkalies such as sodium hydroxide. Hazardous decomposition products: Carbon oxides.

Section 11 **Toxicological information**

Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available 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 known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. 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: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed. Skin: May cause mild irritation. Eyes: May cause mild irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: Data not available Section 12 Ecological information Toxicity to fish: No data available 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 PBT and vPvB assessment: No data available Mobility in soil: 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. Section 14 Transport infor

0000001114	manoport informat						
UN/NA number: Hazard class: No Exceptions: Not	t applicable	Shipping name: N Packing group: N 2020 ERG Guide #	ot applicable	Reportable Qua	antity: No	Ма	rine pollutant: No
Section 15	Regulatory informa	tion					
A chemical is considered	to be listed if the CAS num	nber for the anhydrous form	is on the Inventory list.				
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Acetic acid Sodium acetate		Listed Listed	5,000 lbs (2,270 kg) Not listed	D001 ; D002 Not listed	Listed Listed	Not 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						
							ered by them and must make indepen-

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

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE® by Aldon Corporation 221 Rochester Street

"Cutting edge science for the classroom"

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

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Product BUFFER SOLUTION, PH7 (YELLOW COLOR CODED)	
Synonyms Standard Buffer Solution, pH 7.00	
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Signal word: WARNING Pictograms: None required Target organs: None known GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B)	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.
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Hazards not otherwise classified:

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Section 3 Composition / info	Composition / information on ingredients						
Chemical Name	CAS #	%	EINECS				
Water Potassium phosphate, monobasic Sodium hydroxide FD&C yellow #5	7732-18-5 7778-77-0 1310-73-2 1394-21-0	99.15% 0.72% 0.13% trace	231-791-2 231-913-4 215-185-5 None assigned				

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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

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Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Linits.	Potassium phosphate	None established.	None established.	None established.			

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Appearance: Clea	Physical and chemica	al properties					
oH: 7.0 Nelting / Freezing point	Data not available. nt: Approximately 0°C (32°F) (wate roximately 100°C (212°F) (wate	Flammability (Explosion limi Vapor pressur r) Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not a ts: Lower / Upper: D e (mm Hg): 14 (water) (Air = 1): 0.7 (water) (Specific gravity): Appro: : Complete in water.	ata not available	Auto-igniti Decompos Viscosity: Molecular		: Data not available re : Data not available. ble. e
ection 10	Stability and reactivit	у					
Chemical stability Conditions to avo	 r: Stable rid: Excessive temperatures 		ous polymerization: V tion.	/ill not occur.			
ncompatibilities	with other materials: Acids	, alkalies, and air will o	change the buffer's abili	ty.			
lazardous decon	nposition products: Therm	al decomposition will y	ield phosphates and so	odium oxide and/or l	nydroxides.		
ection 11	Toxicological informa						
	ral-rat LD50: 3,200 mg/kg [F itation: Data not available	otassium priospriatej					
	age/irritation: Data not avai	able					
	in sensitization: Data not a	vailable					
-	enicity: Data not available						
Carcinogenity: D NTP: No compone	nt of this product present at l	evels greater than or e	equal to 0.1% is identified	ed as a known or an	ticipated carci	noaen bv NTP	
	ent of this product present at	•				°	cinogen by IARC.
	nent of this product present a			•			SHA.
	roduct does not contain any icity: Data not available	chemicals known to th	e State of California to	cause cancer or rep	productive toxi	city.	
•	sure: Data not available						
• •	posure: Data not available						
•	I: Data not available						
Potential health e	ffects: harmful if inhaled.						
	harmful if swallowed.						
Skin: May cause n							
Eyes: May cause		at af aur knowladge th	a chamical physical a	d toxicological prov	artica hava na	theen therewas	ly investigated Creating dat
• • •	oms of exposure: To the be rcise appropriate procedures	•		ia toxicological prop	enties have no	or been thorough	ly investigated. Specific dat
		0 [Potassium phospha					
	allon. Kileos #. 1000130						
	Ecological informatio	n					
Additional inform	Ecological informatio	n					
Additional inform Section 12 Foxicity to fish: N Foxicity to daphni	Ecological informatio		able				
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Additional inform ection 12 oxicity to fish: N oxicity to daphni oxicity to algae: Persistence and o Mobility in soil: N Other adverse effo	Ecological informatio lo data available ia and other aquatic inverte No data available legradability: No data avail lo data available	ebrates: No data avail able Bioaccumu PBT and vi ard cannot be excluded	u lative potential: No c PvB assessment: No	data available	disposal.		
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Additional inform action 12 Toxicity to fish: N Toxicity to daphni Toxicity to algae: Persistence and of Abbility in soil: N Other adverse efford Section 13 These disposal g egulations may b Section 14 JN/NA number: Hazard class: N Exceptions: N Section 15 Achemical is conside Compo Potassium phospha	Ecological informatio to data available ia and other aquatic inverter No data available legradability: No data avail lo data available ects: An environmental haza Disposal consideratio uidelines are intended for be different. Dispose of in Transport informatio : Not applicable \$ Not applicable \$ Not applicable \$ Regulatory informatic red to be listed if the CAS number nent	abrates: No data avail able Bioaccume PBT and viard cannot be excluded ons the disposal of cata accordance with all n Shipping name: N Packing group: N 2020 ERG Guide # on er for the anhydrous form TSCA Listed	Ilative potential: No of PVB assessment: No d in the event of unprofi- log-size quantities or local, state and fede lot Regulated ot applicable Not applicable is on the Inventory list. CERLCA (RQ) Not listed	data available essional handling or ily. Federal regula ral regulations or Reportable Qua RCRA code Not listed	ations may ap contract with ntity: No DSL Listed	a licensed che Ma NDSL Not listed	emical disposal agency. arine pollutant: No CA Prop 65 This product does not contain any chemicals known to the SI
Additional inform section 12 Toxicity to fish: N Toxicity to daphni Toxicity to daphni Toxicity to dapae: Persistence and of Mobility in soil: N Dother adverse effor Section 13 These disposal g egulations may be Section 14 JN/NA number: Hazard class: N Exceptions: No Section 15 achemical is conside Compo Potassium phospha Sodium hydroxide Section 16	Ecological information to data available ia and other aquatic inverter No data available legradability: No data avail lo data available ects: An environmental haza Disposal consideration uidelines are intended for be different. Dispose of in Transport information : Not applicable Sont	abrates: No data avail able Bioaccum PBT and vi ard cannot be excluded ons the disposal of cata accordance with all n Shipping name: N Packing group: N 2020 ERG Guide # on For for the anhydrous form TSCA Listed Listed	Jative potential: No of PvB assessment: No d in the event of unprofi- log-size quantities or local, state and fede lot Regulated ot applicable Not applicable is on the Inventory list. CERLCA (RQ) Not listed 1,000 lbs (454 kg)	data available essional handling or ily. Federal regula ral regulations or Reportable Qua RCRA code Not listed D002	ations may ap contract with ntity: No DSL Listed Listed	a licensed che Ma NDSL Not listed Not listed	CA Prop 65 This product does not contain any chemicals known to the St of California to cause cancer or reproductive toxicity.

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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		7732-18-5	99.08%	231-791-2		
Potassium chloride		7447-40-7	0.40%	231-211-8		
Boric acid		10043-35-3	0.33%	233-139-2		
Sodium hydroxide		1310-73-2	0.19%	215-185-5		
FD&C blue #1 (C.I. No.	42090)	3844-45-9	trace	223-339-8		

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: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: 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.

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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.

Section 9 Appearance: Clear, Odor: No odor.	Developt and showing						
	Physical and chemica	I properties					
Odor threshold: Dat pH: 10.0 Melting / Freezing point:	ta not available. Approximately 0°C (32°F) (water imately 100°C (212°F) (water	Flammability (Explosion lim Vapor pressur) Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not : its: Lower / Upper: D re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appr : Complete in water.	Data not available r)	Auto-igniti Decompos Viscosity: Molecular		: Data not available re: Data not available. le. e
Section 10	Stability and reactivity	1					
Incompatibilities wit	Stable : Excessive temperatures th other materials: Acids, osition products: Boron o	which cause evapora alkalies, and air will o	change the buffer's abi				
Section 11	Toxicological informat	tion					
Acute toxicity: Data Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutagenit Carcinogenity: Data NTP: No component IARC: No component OSHA: No component OSHA: No component Ca Prop 65: This proc Reproductive toxicit STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: May be ha Ingestion: May be ha Skin: May cause mild Eyes: May cause mild Eyes: May cause mild Signs and symptom not available. Exercis Additional informati Section 12	not available tion: Data not available plirritation: Data not available sensitization: Data not available sensitization: Data not available a not available of this product present at let of this product present at let to f this product present at let but if wallowed. d irritation. d irritation. s of exposure: To the besises appropriate procedures: on: RTECS #: Data not a Ecological information	able vailable evels greater than or evels greater than or levels greater than o hemicals known to th shemicals known to th st of our knowledge th to minimize potential vailable	equal to 0.1% is ident r equal to 0.1% is iden e State of California to ne chemical, physical a	ified as probable, pos tified as a carcinoger o cause cancer or rep	sible or confir a or potential c roductive toxi	med human carc carcinogen by OS city.	5 7
Toxicity to algae: No Persistence and deg Mobility in soil: No	and other aquatic inverte data available gradability: No data availa	ble Bioaccum PBT and v	ulative potential: No PvB assessment: No	o data available	disposal.		
	Dispession consideration						
Section 13	Disposal consideratio	ns					
These disposal guid	•	the disposal of cata accordance with al					ontainer. State and/or local mical disposal agency.
These disposal guid regulations may be	defines are intended for t different. Dispose of in Transport information Not applicable S t applicable P	the disposal of cata accordance with al	l local, state and fed lot Regulated ot applicable		contract with	a licensed che	
These disposal guid regulations may be Section 14 UN/NA number: Hazard class: No Exceptions: Not Section 15	defines are intended for t different. Dispose of in Transport information Not applicable S t applicable P applicable 2 Regulatory informatio	the disposal of cata accordance with al hipping name: N acking group: N 020 ERG Guide # n	local, state and fed lot Regulated ot applicable Not applicable	eral regulations or	contract with	a licensed che	mical disposal agency.
These disposal guid regulations may be Section 14 UN/NA number: Hazard class: Not Exceptions: Not Section 15 A chemical is considered	delines are intended for t different. Dispose of in Transport information Not applicable S t applicable P applicable 2 Regulatory informatio to be listed if the CAS numbe	the disposal of cata accordance with al hipping name: N acking group: N 020 ERG Guide # n r for the anhydrous form	local, state and fed lot Regulated ot applicable Not applicable is on the Inventory list.	eral regulations or Reportable Qua	contract with	a licensed che Ma	mical disposal agency.
These disposal guid regulations may be Section 14 UN/NA number: Hazard class: Not Exceptions: Not Section 15	delines are intended for t different. Dispose of in Transport information Not applicable S t applicable P applicable 2 Regulatory informatio to be listed if the CAS numbe	the disposal of cata accordance with al hipping name: N acking group: N 020 ERG Guide # n	local, state and fed lot Regulated ot applicable Not applicable	eral regulations or	contract with	a licensed che	mical disposal agency.

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