Suspect #6

Description: Male, age 32, 5' 10", 197 lbs, brown hair, brown eyes

Prior Arrests: Drug possession

Occupation: Cook, Aladdin's Lamp Diner

<u>Suspect's Statement/Explanation</u>: I'm a cook. I don't know if you have been in the kitchen at a diner but there is stuff all over the place. Flour, cornstarch, powdered sugar, baking soda and baking powder. I come home covered in the stuff every day. I know I had a lot of cash at home but the waiters/waitresses split their tips with us and I have been trying to save some money. I don't really like cooking but I love baking so I have been trying to save to open my own bakery/coffee shop. I found a place to lease but the owner wants the first 6 months rent in cash so I have been setting aside all of my tip money for over a year now. A couple more months and I think I will finally have enough to start up.

Writing Sample

The guck brown fox jumps over the lags

doy

Pack my boy with five dozen linguos jugs

Fingerprints

THUMB	INDEX	MIDDLE	RING	PINKY

GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Ware 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.

BAKING POWDER Product Synonyms Suspect #1 White Powder Evidence Section 2 Hazards identification This substance or mixture has not been classified as hazardous according Precautionary statement(s): to the Globally Harmonized System (GHS) of Classification and Labeling of Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective Chemicals. gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified

Hazards not otherwise classified:

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

Section 3	Composition / information o	n ingredients			
Chemical Name		CAS #	%	EINECS	
Sodium bicarbonate		144-55-8		205-633-8	
Sodium pyrophospha	ate	7722-88-5		231-767-1	
Corn starch		9005-25-8		232-679-6	
Monocalcium phospl	nate	7758-23-8		231-837-1	

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

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 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 away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Sodium bicarbonate	None established	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 chemical p	roperties				
 Appearance: Solid, white powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available 	Evaporation rate (= 1): Data Flammability (solid/gas): Dat Explosion limits: Lower / Upp Vapor pressure (mm Hg): Da Vapor density (Air = 1): Data Relative density (Specific gra Solubility(ies): Approximately	a not available. per: Data not available a not available not available vity): Data not available	Auto-ignition Decompositi Viscosity: D Molecular for Molecular we		: Data not available Ire: Data not available ble. re
Section 10 Stability and reactivity					
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,				
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.			
Hazardous decomposition products: Gaseous of	arbon dioxide.				
Section 11 Toxicological information	n				
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0
Section 12 Ecological information					
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]	
Section 13 Disposal considerations					
These disposal guidelines are intended for the					
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a		
•	pping name: Not Regulated				
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No
	0 ERG Guide # Not applicable	•			
Section 15 Regulatory information					
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.			
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65
Sodium bicarbonate	Listed Not listed	Not listed	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 warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	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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Identification

INNOVATING SCIENCE® by Aldon 221 Rochester Street Avon NY 14414-9406

Page E1 of E2

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

	utting edge science for the classroom"	221 Rocheste Avon, NY 144 (585) 226-617	14-9409	For laboratory and industrial use only. Not for drug, food or household use.
Product	SODIUM BICARBONATE, ANHYDROUS			
Synonyms	Baking Soda / Sodium Hydrogen Carbonate / Carbonic Acid S	Sodium (1:1)	Suspect #2 White F	Powder Evidence
Section 2	Hazards identification			
to the Glob Chemicals. Signal word Pictograms Target orga GHS Classi	ance or mixture has not been classified as hazardous accor ally Harmonized System (GHS) of Classification and Labelin d: Not classified ins: None known fication: Not classified information: Hazard statement(s): Not classified	•	gloves/protective	statement(s): Just. Do not get in eyes, on skin, or on clothing. Wear protective a clothing/eye protection/face protection. Wash hands thoroughly Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / inform	ation on ingredients			
Chemical Name	CAS #	%	EINECS	
Sodium bicarbonate	144-55-8	100%	205-633-8	
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.

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. This material is commonly used to extinguish fires.

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.

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 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 away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Sodium bicarbonate	None established	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 chemical pr	operties	
Odor: No odor. Odor threshold: Data pH: 8.2 (1% solution)	int: Data not available	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.16 @ 20°C Solubility(ies): 8.6 g/100 ml water at 20°C	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available Viscosity: Data not available. Molecular formula: NaHCO ₃ Molecular weight: 84.01
Section 10	Stability and reactivity		
Observised stability (Dt-hl-	Hennederie webinetien. Mülliget error	

Chemical stability: Stable

ERG: Emergency Response Guidebook.

Form 06/2015

Hazardous polymerization: Will not occur.

Conditions to avoid: High temperature causes decomposition to sodium carbonate, water and carbon dioxide.

Incompatible materials: Reacts with acids to yield acid salts, water and carbon dioxide.

Hazardous decomposition products: Gaseous carbon dioxide.

Section 11 Toxicological information

Section II	Toxicological into	mation						
•	-rat LD50: 4220-4400	0 0						
	tion: Skin-rabbit - not	0	_					
	e/irritation: Eye-rabbi		ig					
	sensitization: Non se city: Data not availab	0						
Carcinogenity: Data	•							
	of this product present	at levels are	ater than or e	equal to 0.1% is identi	fied as a known or a	nticipated carci	nogen by NTP	
	t of this product preser							cinogen by IARC.
	nt of this product prese							
Ca Prop 65: This pro	duct does not contain a	any chemical	s known to th	e State of California t	o cause cancer or re	eproductive toxic	city.	
Reproductive toxici	ty: Data not available							
0 1	ire: Data not available							
	osure: Data not availa	ıble						
Aspiration hazard:								
Potential health effe		·						
	e dust may irritate resp		noo if ingooto	d				
Skin: No hazard kno	may cause gastrointes	แกล นเรเนเมล	nce il ingeste	u.				
	eyes may cause very sl	ight irritation						
	is of exposure: See I			ove.				
	ion: RTECS #: VZ09							
Section 12	Ecological information	ation						
Toxicity to daphnia Toxicity to algae: Ni Persistence and deg Mobility in soil: No	mbusia affinis (fish, fre: and other aquatic inv tcheria linearis (Algae) gradability: No data a data available ts: An environmental l	ertebrates: LC50: 650 n vailable	Daphnia mag ng/l/5 day Bioaccumu PBT and vi	na (Crustacea) EC50 ulative potential: No PvB assessment: N	o data available o data available			
Section 13	Disposal consider	ations						
	delines are intended	for the disp						container. State and/or local emical disposal agency.
Section 14	Transport information	ation						
UN/NA number:	Not applicable	Shippin	name : N	lot Regulated				
Hazard class: No	t applicable			ot applicable	Reportable Qu	antity: No	Ма	arine pollutant: No
Exceptions: Not	••	•	• •	Not applicable				•
Section 15	Regulatory inform	ation						
	to be listed if the CAS nu		nhvdrous form	is on the Inventory list.				
Compone			TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Sodium bicarbonate			Listed	Not listed	Not listed	Listed	Not listed	This product does not contain
			Listou	Not listed	Nothisted	Listed	Nothisted	any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information							•
dent determinations of s	uitability and completenes ncy for Research on Cano	ss of information	on from all sour	ces to assure proper use	e of these materials and	d the safety and h	ealth of employee	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,

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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 BAKING POWDER	
Synonyms Suspect #3 White Powder Evidence	
Section 2 Hazards identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3 Cor	mposition / information on i	ingredients			
Chemical Name		CAS #	%	EINECS	
Sodium bicarbonate		144-55-8 7722-88-5		205-633-8 231-767-1	
Sodium pyrophosphate Corn starch		9005-25-8		232-679-6	
Monocalcium phosphate		7758-23-8		231-837-1	

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.

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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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

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 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 away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Sodium bicarbonate	None established	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 chemical p	roperties						
 Appearance: Solid, white powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available 	Evaporation rate (= 1): Data Flammability (solid/gas): Dat Explosion limits: Lower / Upp Vapor pressure (mm Hg): Da Vapor density (Air = 1): Data Relative density (Specific gra Solubility(ies): Approximately	a not available. per: Data not available a not available not available vity): Data not available	Auto-ignition temperature: Data not available Data not available Decomposition temperature: Data not available not available Viscosity: Data not available. available Molecular formula: Mixture y): Data not available Molecular weight:				
Section 10 Stability and reactivity							
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,						
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.					
Hazardous decomposition products: Gaseous of	arbon dioxide.						
Section 11 Toxicological information	n						
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0		
Section 12 Ecological information							
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]			
Section 13 Disposal considerations							
These disposal guidelines are intended for the							
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a				
•	pping name: Not Regulated						
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No		
	0 ERG Guide # Not applicable	•					
Section 15 Regulatory information							
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.					
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65		
Sodium bicarbonate	Listed Not listed	Not listed	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 warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	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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Page E1 of E2

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.

BAKING POWDER Product Synonyms Suspect #4 White Powder Evidence Section 2 Hazards identification This substance or mixture has not been classified as hazardous according Precautionary statement(s): to the Globally Harmonized System (GHS) of Classification and Labeling of Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective Chemicals. gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified

Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS	
Sodium bicarbonate		144-55-8		205-633-8	
Sodium pyrophospha	te	7722-88-5		231-767-1	
Corn starch		9005-25-8		232-679-6	
Monocalcium phosph	ate	7758-23-8		231-837-1	

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Page E2 of E2

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 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 away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Sodium bicarbonate	None established	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 chemical p	roperties						
 Appearance: Solid, white powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available 	Evaporation rate (= 1): Data Flammability (solid/gas): Dat Explosion limits: Lower / Upp Vapor pressure (mm Hg): Da Vapor density (Air = 1): Data Relative density (Specific gra Solubility(ies): Approximately	a not available. per: Data not available a not available not available vity): Data not available	Auto-ignition temperature: Data not available Data not available Decomposition temperature: Data not available not available Viscosity: Data not available. available Molecular formula: Mixture y): Data not available Molecular weight:				
Section 10 Stability and reactivity							
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,						
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.					
Hazardous decomposition products: Gaseous of	arbon dioxide.						
Section 11 Toxicological information	n						
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0		
Section 12 Ecological information							
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]			
Section 13 Disposal considerations							
These disposal guidelines are intended for the							
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a				
•	pping name: Not Regulated						
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No		
	0 ERG Guide # Not applicable	•					
Section 15 Regulatory information							
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.					
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65		
Sodium bicarbonate	Listed Not listed	Not listed	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 warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	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

GENERAL STORAGE CODE GREEN

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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.

Synonyms Suspect #5 White Powder Evidence	
Section 2 Hazards identification	
to the Globally Harmonized System (GHS) of Classification and Labeling of G Chemicals. g	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients					
Chemical Name	CAS #	%	EINECS		
Sodium bicarbonate	144-55-8		205-633-8		
Sodium pyrophosphate	7722-88-5		231-767-1		
Corn starch	9005-25-8		232-679-6		
Monocalcium phosphate	7758-23-8		231-837-1		

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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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 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 away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Sodium bicarbonate	None established	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 chemical p	roperties						
 Appearance: Solid, white powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available 	Evaporation rate (= 1): Data Flammability (solid/gas): Dat Explosion limits: Lower / Upp Vapor pressure (mm Hg): Da Vapor density (Air = 1): Data Relative density (Specific gra Solubility(ies): Approximately	a not available. per: Data not available a not available not available vity): Data not available	Auto-ignition temperature: Data not available Data not available Decomposition temperature: Data not available not available Viscosity: Data not available. available Molecular formula: Mixture y): Data not available Molecular weight:				
Section 10 Stability and reactivity							
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,						
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.					
Hazardous decomposition products: Gaseous of	arbon dioxide.						
Section 11 Toxicological information	n						
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0		
Section 12 Ecological information							
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]			
Section 13 Disposal considerations							
These disposal guidelines are intended for the							
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a				
•	pping name: Not Regulated						
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No		
	0 ERG Guide # Not applicable	•					
Section 15 Regulatory information							
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.					
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65		
Sodium bicarbonate	Listed Not listed	Not listed	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 warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	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

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 BAKING POWDER	
Synonyms Suspect #6 White Powder Evidence	
Section 2 Hazards identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients					
Chemical Name	CAS #	%	EINECS		
Sodium bicarbonate	144-55-8		205-633-8		
Sodium pyrophosphate	7722-88-5		231-767-1		
Corn starch	9005-25-8		232-679-6		
Monocalcium phosphate	7758-23-8		231-837-1		

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: Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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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 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 away from incompatible substances. Store away from acids.

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Sodium bicarbonate	None established	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 chemical p	roperties				
Appearance: Solid, white powder. Evaporation rate (=1): Data not available Partition coefficient: Data not available Odor: No odor. Flammability (solid/gas): Data not available. Partition coefficient: Data not available Odor threshold: Data not available Flammability (solid/gas): Data not available. Partition coefficient: Data not available pH: Data not available Explosion limits: Lower / Upper: Data not available Decomposition temperature: Data not available Welting / Freezing point: Data not available Vapor pressure (mm Hg): Data not available Viscosity: Data not available. Boiling point: Data not available Vapor density (Specific gravity): Data not available Molecular formula: Mixture Flash point: Data not available Solubility(ies): Approximately 10 g/100 ml water at 20°C Notecular weight: Mixture					: Data not available Ire: Data not available ble. re
Section 10 Stability and reactivity					
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,				
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.			
Hazardous decomposition products: Gaseous of	arbon dioxide.				
Section 11 Toxicological information	n				
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0
Section 12 Ecological information					
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]	
Section 13 Disposal considerations					
These disposal guidelines are intended for the					
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a		
•	pping name: Not Regulated				
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No
	0 ERG Guide # Not applicable	•			
Section 15 Regulatory information					
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.			
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65
Sodium bicarbonate	Listed Not listed	Not listed	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 warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	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

Synonyms

Identification

INNOVATING SCIENCE 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.

URINE, ARTIFICIAL, POSITIVE Product

Suspect #1 "Urine Sample Section 2 Hazards identification

Signal word: WARNING Pictograms: None required Target organs: None known

GHS Classification:

Skin irritation (Category 3) Eye irritation (Category 2B)

GHS Label information: Hazard statement(s):

H316: Causes mild skin irritation. H320: Causes eye irritation.

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.

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	ingreaients			
Chemical Name	CAS #	%	EINECS	
Water	7732-18-5	98.644%	231-791-2	
Boric acid	10043-35-3	0.418%	233-139-2	
Potassium chloride	7447-40-7	0.40%	231-211-8	
Sodium hydroxide	1310-73-2	0.284%	215-185-5	
Germaben II	Mixture	0.25%	Mixture	
FD&C Yellow #5	1934-21-0	0.004%	217-699-5	

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.

Form 06/2015

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 Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Potassium chloride	None established.	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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Boiling point: Approxir Flash point: Data not Section 10 Chemical stability: S	a not available. Approximately 0°C (32°F) (w nately 100°C (212°F) (wa	Ater) Flammability Explosion lim Vapor pressu Vapor density	rate (Water = 1): <1 (solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): 14 (water (Air = 4): 0.7 (water)	Data not available	Auto-igniti Decompos	sition temperatu	: Data not available Ire: Data not available.
Chemical stability: S			y (Air = 1): 0.7 (water) y (Specific gravity): App): Complete in water.	,	Molecular	Data not availab formula: Mixtur weight: Mixture	e
•	Stability and reactiv	/ity					
Conditions to avoid:		Hazard es which cause evapora	lous polymerization: ation.	Will not occur.			
Incompatibilities with	other materials: Aci	ds, alkalies, and air will	change the buffer's ab	ility.			
Hazardous decompos	sition products: Bord	on oxide and chlorine ga	IS.				
Section 11	Toxicological inform	nation					
Germ cell mutagenici Carcinogenity: Data NTP: No component of IARC: No component of OSHA: No component Ca Prop 65: This produ Reproductive toxicity STOT-single exposur STOT-repeated exposur STOT-repeated exposur Aspiration hazard: D Potential health effect Inhalation: May be har Ingestion: May be har Skin: May cause mild Eyes: May cause mild Signs and symptoms not available. Exercise	f this product present a of this product present of this product present uct does not contain ar y: Data not available re: Data not available sure: Data not available bata not available ts: rmful if inhaled. mful if swallowed. irritation. I irritation. s of exposure: To the	at levels greater than or at levels greater than or t at levels greater than or y chemicals known to t le best of our knowledge t es to minimize potential	r equal to 0.1% is ident or equal to 0.1% is iden the State of California to the chemical, physical a	ified as probable, pos tified as a carcinogen o cause cancer or rep	ssible or confir n or potential o productive toxi	rmed human carc carcinogen by OS icity.	
Section 12	Ecological informat	ion					
Toxicity to algae: No of Persistence and degr Mobility in soil: No da Other adverse effects	nd other aquatic inver data available radability: No data ava ata available s: An environmental ha	PBT and vazard cannot be exclude	nulative potential: No vPvB assessment: No	o data available	disposal.		
		or the disposal of cata					container. State and/or loca emical disposal agency.
· ,	Transport informat						
UN/NA number: N Hazard class: Not Exceptions: Not a	applicable applicable	Shipping name: I Packing group: N 2020 ERG Guide #	Not applicable	Reportable Qua	ntity: No	Ma	arine pollutant: No
	Regulatory informa		a la contra la contra de la contra				
A chemical is considered t Componen		nber for the anhydrous form	m is on the Inventory list.	RCRA code	DSL	NDSL	CA Prop 65
Potassium chloride	<u>.</u>	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the Sta of California to cause cancer or

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GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Ro. W

"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 URINE, ARTIFICIAL, POSITIVE	
Synonyms Suspect #2 "Urine Sample	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: None required Target organs: None known GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B) GHS Label information: Hazard statement(s): H316: Causes mild skin irritation. H320: Causes eye irritation.	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.

Hazards not otherwise classified:

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

Section 3 Co	Composition / information on ingredients						
Chemical Name	CAS #	%	EINECS				
Water	7732-18-5	98.644%	231-791-2				
Boric acid	10043-35-3	0.418%	233-139-2				
Potassium chloride	7447-40-7	0.40%	231-211-8				
Sodium hydroxide	1310-73-2	0.284%	215-185-5				
Germaben II	Mixture	0.25%	Mixture				
FD&C Yellow #5	1934-21-0	0.004%	217-699-5				

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.

Form 06/2015

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 Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	Potassium chloride	None established.	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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Boiling point: Approxir Flash point: Data not Section 10 Chemical stability: S	a not available. Approximately 0°C (32°F) (w nately 100°C (212°F) (wa	Ater) Flammability Explosion lim Vapor pressu Vapor density	rate (Water = 1): <1 (solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): 14 (water (Air = 4): 0.7 (water)	Data not available	Auto-igniti Decompos	sition temperatu	: Data not available Ire: Data not available.
Chemical stability: S			y (Air = 1): 0.7 (water) y (Specific gravity): App): Complete in water.	,	Molecular	Data not availab formula: Mixtur weight: Mixture	e
•	Stability and reactiv	/ity					
Conditions to avoid:		Hazard es which cause evapora	lous polymerization: ation.	Will not occur.			
Incompatibilities with	other materials: Aci	ds, alkalies, and air will	change the buffer's ab	ility.			
Hazardous decompos	sition products: Bord	on oxide and chlorine ga	IS.				
Section 11	Toxicological inform	nation					
Germ cell mutagenici Carcinogenity: Data NTP: No component of IARC: No component of OSHA: No component Ca Prop 65: This produ Reproductive toxicity STOT-single exposur STOT-repeated exposur STOT-repeated exposur Aspiration hazard: D Potential health effect Inhalation: May be har Ingestion: May be har Skin: May cause mild Eyes: May cause mild Signs and symptoms not available. Exercise	f this product present a of this product present of this product present uct does not contain ar y: Data not available re: Data not available sure: Data not available bata not available ts: rmful if inhaled. mful if swallowed. irritation. I irritation. s of exposure: To the	at levels greater than or at levels greater than or t at levels greater than or y chemicals known to t le best of our knowledge t es to minimize potential	r equal to 0.1% is ident or equal to 0.1% is iden the State of California to the chemical, physical a	ified as probable, pos tified as a carcinogen o cause cancer or rep	ssible or confir n or potential o productive toxi	rmed human carc carcinogen by OS icity.	
Section 12	Ecological informat	ion					
Toxicity to algae: No of Persistence and degr Mobility in soil: No da Other adverse effects	nd other aquatic inver data available radability: No data ava ata available s: An environmental ha	PBT and vazard cannot be exclude	nulative potential: No vPvB assessment: No	o data available	disposal.		
		or the disposal of cata					container. State and/or loca emical disposal agency.
· ,	Transport informat						
UN/NA number: N Hazard class: Not Exceptions: Not a	applicable applicable	Shipping name: I Packing group: N 2020 ERG Guide #	Not applicable	Reportable Qua	ntity: No	Ma	arine pollutant: No
	Regulatory informa		a la contra la contra de la contra				
A chemical is considered t Componen		nber for the anhydrous form	m is on the Inventory list.	RCRA code	DSL	NDSL	CA Prop 65
Potassium chloride	<u>.</u>	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the Sta of California to cause cancer or

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.

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Roc Avron. W

"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	URINE, SIMULATED, WITH CONTROL	
Synonyms	Suspect #3 "Urine Sample	
Section 2	Hazards identification	
Pictogram Target org GHS Class Skin irrit. (C Eye irrit. (C GHS Label H316: Caus		Precautionary statement(s): P264: Wash hands thoroughly after handling. P332+P313: If skin irritation occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.

Hazards not otherwise classified:

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

Section 3	Composition / informa	Composition / information on ingredients				
Chemical Name		CAS #	%	EINECS		
Water		7732-18-5	>99.89%	231-791-2		
Methylparaben		99-76-3	0.1%	202-785-7		
FD&C Yellow #5 (0	C.I. No. 19140)	1934-21-0	0.005%	217-699-5		
Thymol		89-83-8	0.0017%	201-944-8		

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.

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

Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: 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. In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. 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. Avoid runoff into storm sewers and ditches which lead to waterways.

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, well-ventilated area away from incompatible substances. Section 8 Exposure controls / personal protection Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Not applicable None established 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical and chemical pro	operties	
Appearance: Clear, yellow liquid. Odor: No odor. Odor threshold: N/A pH: N/A Melting / Freezing point: ~ 0°C (~ 32°F) [water] Boiling point: ~ 100°C (212°F) [water] Flash point: Not flammable.	Evaporation rate (=1): < 1 Flammability (solid/gas): N/A Explosion limits: Upper: N/A Lower: N/A Vapor pressure (mm Hg): 14 [water] Vapor density (Air = 1): 0.7 [water] Relative density (Specific gravity): 1.0 [water] Solubility(ies): Complete.	Partition coefficient: (n-octanol / water): N/A Auto-ignition temperature: N/A Decomposition temperature: N/A Viscosity: N/A Molecular formula: Mixture. Molecular weight: Mixture.
Section 10 Stability and reactivity		

Hazardous polymerization: Will not occur.

Chemical stability: Stable

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Strong oxidizers.

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: Prolonged contact may cause irritation. Eyes: Contact may cause 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 #: DH2450000 [Methylparaben] 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 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.

Section 14	Transport informat	ion					
UN/NA number: Hazard class: Not Exceptions: Not	t applicable	Shipping name: Packing group: 2020 ERG Guide	0	Reportable Quantity: No		Ма	rine pollutant: No
Section 15	Regulatory information	tion					
A chemical is considered	I to be listed if the CAS num	ber for the anhydrous for	orm is on the Inventory list.				
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components listed	with TSCA.						This product does not contain any chemicals known to the State of California to cause cancer or
							reproductive toxicity.
Section 16	Other information						
dent determinations of se	uitability and completeness	of information from all s	ources to assure proper use	of these materials and	the safety and he	alth of employees	ered by them and must make indepen- . NTP: National Toxicology Program, osure, RE: Repeated Exposure,

IARC: International Agency for Research ERG: Emergency Response Guidebook

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Section 1

Identification

"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 URINE, SIMULATED, WITH CONTROL	
Synonyms Suspect #4 "Urine Sample	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: Not applicable. Target organs: None known. GHS Classification: Skin irrit. (Category 3) Eye irrit. (Category 2B) GHS Label information: Hazard statement(s): H316: Causes mild skin irritation. H320: Causes eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P332+P313: If skin irritation occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention.

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	>99.89%	231-791-2	
Methylparaben	99-76-3	0.1%	202-785-7	
FD&C Yellow #5 (C.I. No. 19140)	1934-21-0	0.005%	217-699-5	
Thymol	89-83-8	0.0017%	201-944-8	

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.

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

Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: 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. In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. 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. Avoid runoff into storm sewers and ditches which lead to waterways.

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, well-ventilated area away from incompatible substances. Section 8 Exposure controls / personal protection Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Not applicable None established 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical and chemical pro	operties	
Appearance: Clear, yellow liquid. Odor: No odor. Odor threshold: N/A pH: N/A Melting / Freezing point: ~ 0°C (~ 32°F) [water] Boiling point: ~ 100°C (212°F) [water] Flash point: Not flammable.	Evaporation rate (=1): < 1 Flammability (solid/gas): N/A Explosion limits: Upper: N/A Lower: N/A Vapor pressure (mm Hg): 14 [water] Vapor density (Air = 1): 0.7 [water] Relative density (Specific gravity): 1.0 [water] Solubility(ies): Complete.	Partition coefficient: (n-octanol / water): N/A Auto-ignition temperature: N/A Decomposition temperature: N/A Viscosity: N/A Molecular formula: Mixture. Molecular weight: Mixture.
Section 10 Stability and reactivity		

Hazardous polymerization: Will not occur.

Chemical stability: Stable

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Strong oxidizers.

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: Prolonged contact may cause irritation. Eyes: Contact may cause 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 #: DH2450000 [Methylparaben] 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 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.

Section 14	Transport informat	ion					
UN/NA number: Hazard class: Not Exceptions: Not	t applicable	Shipping name: Packing group: 2020 ERG Guide	0	Reportable Qua	antity: No	Ма	rine pollutant: No
Section 15	Regulatory information	tion					
A chemical is considered	I to be listed if the CAS num	ber for the anhydrous for	orm is on the Inventory list.				
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components listed	with TSCA.						This product does not contain any chemicals known to the State of California to cause cancer or
							reproductive toxicity.
Section 16	Other information						
dent determinations of se	uitability and completeness	of information from all s	ources to assure proper use	of these materials and	the safety and he	alth of employees	ered by them and must make indepen- . NTP: National Toxicology Program, osure, RE: Repeated Exposure,

IARC: International Agency for Research ERG: Emergency Response Guidebook

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Rochester Street "Cutting edge science for the classroom"

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.

URINE, ARTIFICIAL, POSITIVE Product Synonyms Suspect #5 "Urine Sample

Section 2 Hazards identification

Signal word: WARNING Pictograms: None required Target organs: None known

GHS Classification:

Skin irritation (Category 3) Eye irritation (Category 2B)

GHS Label information: Hazard statement(s):

H316: Causes mild skin irritation. H320: Causes eye irritation.

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.

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	Composition / Information on Ingredients					
Chemical Name	CAS #	%	EINECS			
Water	7732-18-5	98.644%	231-791-2			
Boric acid	10043-35-3	0.418%	233-139-2			
Potassium chloride	7447-40-7	0.40%	231-211-8			
Sodium hydroxide	1310-73-2	0.284%	215-185-5			
Germaben II	Mixture	0.25%	Mixture			
FD&C Yellow #5	1934-21-0	0.004%	217-699-5			

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.

Form 06/2015

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.	Potassium chloride	None established.	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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Boiling point: Approxir Flash point: Data not Section 10 Chemical stability: S	a not available. Approximately 0°C (32°F) (w nately 100°C (212°F) (wa	Ater) Flammability Explosion lim Vapor pressu Vapor density	rate (Water = 1): <1 (solid/gas): Data not nits: Lower / Upper: I ure (mm Hg): 14 (water (Air = 4): 0.7 (water)	Data not available	Auto-igniti Decompos	sition temperatu	: Data not available Ire: Data not available.
Chemical stability: S			y (Air = 1): 0.7 (water) y (Specific gravity): App): Complete in water.	,	Molecular	Data not availab formula: Mixtur weight: Mixture	e
•	Stability and reactiv	/ity					
Conditions to avoid:		Hazard es which cause evapora	lous polymerization: ation.	Will not occur.			
Incompatibilities with	other materials: Aci	ds, alkalies, and air will	change the buffer's ab	ility.			
Hazardous decompos	sition products: Bord	on oxide and chlorine ga	IS.				
Section 11	Toxicological inform	nation					
Germ cell mutagenici Carcinogenity: Data NTP: No component of IARC: No component of OSHA: No component Ca Prop 65: This produ Reproductive toxicity STOT-single exposur STOT-repeated exposur STOT-repeated exposur Aspiration hazard: D Potential health effect Inhalation: May be har Ingestion: May be har Skin: May cause mild Eyes: May cause mild Signs and symptoms not available. Exercise	f this product present a of this product present of this product present uct does not contain ar y: Data not available re: Data not available sure: Data not available bata not available ts: rmful if inhaled. mful if swallowed. irritation. I irritation. s of exposure: To the	at levels greater than or at levels greater than or t at levels greater than or y chemicals known to t le best of our knowledge t es to minimize potential	r equal to 0.1% is ident or equal to 0.1% is iden the State of California to the chemical, physical a	ified as probable, pos tified as a carcinogen o cause cancer or rep	ssible or confir n or potential o productive toxi	rmed human carc carcinogen by OS icity.	
Section 12	Ecological informat	ion					
Toxicity to algae: No of Persistence and degr Mobility in soil: No da Other adverse effects	nd other aquatic inver data available radability: No data ava ata available s: An environmental ha	PBT and vazard cannot be exclude	nulative potential: No vPvB assessment: No	o data available	disposal.		
		or the disposal of cata					container. State and/or loca emical disposal agency.
· ,	Transport informat						
UN/NA number: N Hazard class: Not Exceptions: Not a	applicable applicable	Shipping name: I Packing group: N 2020 ERG Guide #	Not applicable	Reportable Qua	ntity: No	Ma	arine pollutant: No
	Regulatory informa		a la contra la contra de la contra				
A chemical is considered t Componen		nber for the anhydrous form	m is on the Inventory list.	RCRA code	DSL	NDSL	CA Prop 65
Potassium chloride	<u>.</u>	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the Sta of California to cause cancer or

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 Roo

"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 URINE, SIMULATED, WITH CONTROL	
Synonyms Suspect #6 "Urine Sample	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: Not applicable. Target organs: None known.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P332+P313: If skin irritation occurs: Get medical advice/attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove
GHS Classification: Skin irrit. (Category 3) Eye irrit. (Category 2B)	contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/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 3 Composition / information on ingredients				
Chemical Name	CAS #	%	EINECS	
Water	7732-18-5	>99.89%	231-791-2	
Methylparaben	99-76-3	0.1%	202-785-7	
FD&C Yellow #5 (C.I. No. 19140)	1934-21-0	0.005%	217-699-5	
Thymol	89-83-8	0.0017%	201-944-8	

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.

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

Section 5 Fire fighting measures

Extinguishing Media: Use any media suitable for extinguishing supporting fire.

General information: 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. In fire conditions, water may evaporate from this solution which may cause hazardous decomposition products to be formed as dust or fume.

Section 6 Accidental release measures

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. 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. Avoid runoff into storm sewers and ditches which lead to waterways.

Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. For laboratory use only. Not for drug, food or household use. Keep out of reach of children

Handling: Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale vapors, spray or mist. Wash thoroughly after handling. Remove and wash clothing before reuse.

Storage: Store in a cool, well-ventilated area away from incompatible substances. Section 8 Exposure controls / personal protection Chemical Name ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: Not applicable None established 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical and chemical pro	operties	
Appearance: Clear, yellow liquid. Odor: No odor. Odor threshold: N/A pH: N/A Melting / Freezing point: ~ 0°C (~ 32°F) [water] Boiling point: ~ 100°C (212°F) [water] Flash point: Not flammable.	Evaporation rate (=1): < 1 Flammability (solid/gas): N/A Explosion limits: Upper: N/A Lower: N/A Vapor pressure (mm Hg): 14 [water] Vapor density (Air = 1): 0.7 [water] Relative density (Specific gravity): 1.0 [water] Solubility(ies): Complete.	Partition coefficient: (n-octanol / water): N/A Auto-ignition temperature: N/A Decomposition temperature: N/A Viscosity: N/A Molecular formula: Mixture. Molecular weight: Mixture.
Section 10 Stability and reactivity		

Hazardous polymerization: Will not occur.

Chemical stability: Stable

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Strong oxidizers.

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: Prolonged contact may cause irritation. Eyes: Contact may cause 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 #: DH2450000 [Methylparaben] 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 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 upprofessional 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 informat	ion					
UN/NA number: Hazard class: Not Exceptions: Not	t applicable	Shipping name: Packing group: 2020 ERG Guide	Not 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	ber for the anhydrous for	orm is on the Inventory list.				
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components listed	with TSCA.						This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						
							red by them and must make indepen- . 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

Page E1 of E2

Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Root

"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 1% PHENOLPHTHALEIN IN ISOPROPYL ALCOHOL SOLUTION	
Synonyms 1% Phenolphthalein in IPA Drug Detection Reagent	
Section 2 Hazards identification	
Signal word: DANGER Pictograms: GHS02 / GHS07 / GHS08 Target organs: Central nervous system, Liver, Kidneys. Image: Contrast nervous system, Liver, Kidneys.	 Precautionary statement(s): P201: Obtain special instructions before use. P202: Do not handle until all safety precautions have been read and understood. P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233: Keep container tightly closed. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge. P260: Do not breathe mist/vapours/spray. P264: Wash hands thoroughly after handling. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep in a position comfortable for breathing. P312: Call a POISON CENTER or doctor if you feel unwell. P308+P313: IF exposed or concerned: Get medical attention. P337+P313: If eye irritation persists: Get medical attention. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. P403+P235: Store in a well-ventilated place. Keep cool. P501: Dispose of contents/container to a licensed chemical disposal agency in
<u>Hazards not otherwise classified:</u> Health hazards not otherwise classified (HHNOC) - Not Known	accordance with local/regional/national regulations.

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Isopropyl alcohol Water Phenolphthalein		67-63-0 7732-18-5 77-09-8	70% 29% 1%	200-661-7 231-791-2 201-004-7	
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. CAUSES RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: CAUSES EYE 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 BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN 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. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

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: Remove all sources of ignition. 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.

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. Keep away from ignition sources.

Section 8	Exposure controls / personal prof	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Isopropanol	TWA: 200 ppm / STEL: 400 ppm	TWA: 400 ppm / 980 mg/m ³	TWA: 400 ppm / STEL: 500 ppm

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	perties					
Boiling point: Appr	dor. Data not available.	Flammability (s Explosion limit Vapor pressure Vapor density (Relative density (te (Butyl acetate = 1): solid/gas): Data not a s: Lower / Upper: 29 e (mm Hg): 33 mm @: Air = 1): 2.1 [Pure IP/ Specific gravity): 0.8* Complete in water.	vailable. % / 12% [Pure IPA] 20°C [Pure IPA]	Auto-ignitio Decompos Viscosity: Molecular	n temperature: 39	re
Section 10	Stability and reactivity						
Chemical stability	/: Stable	Hazardo	us polymerization: W	Vill not occur.			
	bid: Excessive temperatures, heat			0			
·	erials: Strong oxidizing materials,	,	ums, metals, nitroform,	, oleum, chlorinated	compounds o	an react vigorous	sly with this alcohol.
Hazardous decon	nposition products: Oxides of ca	rbon.					
Section 11	Toxicological information						
)ral-rat LD50: >2000 mg/kg ; Inhala	tion-rat LC50: >5	000 ppm/1hr [leoprop	anoll			
CA Prop 65: Reproductive tox STOT-single expo STOT-repeated ex	nent of this product present at leve ARNING! :This product can expose :icity: Data not available >sure: The substance or mixture i xposure: Data not available	e you to Phenolph	thalein, which is known	n to the State of Čali	fornia to caus	se cancer.	
and irritation of the Ingestion: Aspirati develop if this occi Skin: Prolonged o Eyes: Contact caa Signs and sympto Additional inform	offects: tion of high vapor concentrations m e throat. Continued inhalation may ion hazard. Liquid can directly entr urs. r repeated contact may cause irritz uses burning sensation, redness, s oms of exposure: See Potential I nation: RTECS #: NT8050000 [Is	résult in unconso er the lungs (aspi ation and drying, o welling, and/or bl nealth effects abo	viousness and death. rated) when swallowed cracking and defatting urred vision.	d or vomited. Seriou of the skin which car	s lung damag	e and possible fa	
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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.

GENERAL STORAGE CODE GREEN

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Section 1

Identification

*Cutting edge science for the classroom by Aldon (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	DEIONIZED WATER	
Synonyms	Hydrogen Oxide / Distilled Water Drug Extraction Reagent	
Section 2	Hazards identification	
Harmonized Signal word Pictograms Target orga GHS Classi Not a hazard GHS Label Hazard stat	ance has not been classified at this time according to the Globally d System (GHS) of Classification and Labeling of Chemicals. d: Not a hazardous substance s: Not a hazardous substance ans: None known ification: dous substance information: tement: Not a hazardous substance ary statement(s): Not a hazardous substance	Supplemental information: Avoid contact with DANGEROUS WHEN WET and WATER-REACTIVE materials. For laboratory use only. Do not ingest.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known . .

Physical hazards not	otherwise classified	d (PHNOC) - Not Know	n

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Deionized water		7732-18-5	100%	231-791-2	
Section 4	First aid measures				

Section 4 First aid measures

Uncontaminated water should not pose any ill health effects. If ill effects develop, get immediate medical attention.

Section 5

Suitable Extinguishing Media: Not a fire hazard. Water is used for extinguishing fires.

Fire fighting measures

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: Avoid contact with DANGEROUS WHEN WET and WATER-REACTIVE materials. See Section 10.

Section 6 Accidental release measures

Personal Precautions: Uncontaminated material poses no hazards.

Environmental Precautions: Uncontaminated material may be flushed to sewer.

Containment and Cleanup: Uncontaminated material may be flushed to sewer.

Precautions for Safe Handling: Read label on container before using. Not for drug, food or household use. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Wash thoroughly after handling.

Conditions for Safe Storage: Store in a cool area away from water-reactive or dangerous when wet substances.

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	None listed	None listed	None listed	None listed

Engineering controls: None required.

Respiratory protection: None required.

	Physical and cher	mical prope	erties					
Appearance: Clea Odor: No odor. Odor threshold: D pH: Data not availa Melting / Freezing Boiling point: 100 Flash point: Not fl	Data not available able point: 0°C (32°F) °C (212°F)	FI E: Va Va R	lammability (s xplosion limit apor pressure apor density (y (Specific gravity)		Auto-ignitio Decomposi Viscosity: Molecular f	on temperature	ctanol / water): Data not availat : Not flammable ire: Data not available. ole.
Section 10	Stability and react	tivity						
Chemical stability Conditions to avo	: Stable id: Absorption of fumes	and carbon		us polymerization:	Will not occur.			
	erials: Water-reactive m		0	calcium, barium, alka	ali metal alloys, liquid	amalgams, am	ides, carbides,	hydrides, aluminum powders,
Hazardous decom	position products: Ele	ctrolysis will	produce explo	osive and flammable	hydrogen and oxyge	n.		
Section 11	Toxicological info	rmation						
IARC: No compone OSHA: No compone Ca Prop 65: This p Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health e Inhalation: No ill eff Skin: No ill effects Eyes: No ill effects	nt of this product present ent of this product present nent of this product present roduct does not contain a icity: Data not available sure: Data not available sposure: Data not available ffects: ffects expected. fects expected. expected.	nt at levels gr ent at levels g any chemica e e able	reater than or o greater than or als known to th	equal to 0.1% is ider equal to 0.1% is ide	tified as probable, po ntified as a carcinoge	ossible or confir en or potential c	med human car arcinogen by O	
• • •	ation: RTECS #: Data							
Section 12	Ecological information	ation						
Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal g	legradability: No data a lo data available acts: An environmental I Disposal conside uidelines are intended	available hazard canno rations I for the disp of in accord	Bioaccumu PBT and vF ot be excluded	Ilative potential: No PvB assessment: No I in the event of unpr log-size quantities	lo data available ofessional handling o only. Federal regu	lations may ap		container. State and/or loca emical disposal agency.
	Not applicable		na namo: N	lot Regulated				
Hazard class:	Not applicable	Packing	g group: N	ot applicable Not applicable	Reportable Qu	antity: No	М	arine pollutant: No
	Regulatory inform			11				
Exceptions: N			anhydrous form	is on the Inventory list.				
Exceptions: N Section 15	red to be listed if the CAS n		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Exceptions: N Section 15			1004		Renaroodo			
Exceptions: N Section 15 A chemical is consider	nent		Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Exceptions: N Section 15 A chemical is consider Compo						Listed	Not listed	any chemicals known to the Stat of California to cause cancer or

Page E1 of E2

Section 1

Identification

"Cutting edge science for the classroom"

by 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.

Product	THYMOLPHTHALEIN, 0.04% SOLUTION	
Synonyms	Thymolphthalein, 0.04% in Ethyl Alcohol / Thymolphthalein, 0.04%	in Alcohol / Drug Metabolite Detection Reagent
Section 2	Hazards identification	
	DANGER GHS02 / GHS06 / GHS08 s: Eyes, Central nervous system, Liver, Kidneys.	Precautionary statement: P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. P233+P235: Keep container tightly closed. Keep cool. P240: Ground/bond container and receiving equipment. P241: Use explosion-proof electrical/ventilating/lighting equipment. P242: Use only non-sparking tools. P243: Take precautionary measures against static discharge.
Acute toxicity, Acute toxicity,	uid (Category 2) , oral (Category 3) , dermal (Category 3) , inhalation (Category 3) (Category 2B) ategory 2)	 P260: Do not breathe mist/vapours/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated
H225: Highly f H301: Toxic if H311: Toxic in H319: Causes H331: Toxic if H336: May ca	contact with skin. s serious eye irritation.	 clothing. Rinse skin with water/shower. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P308+P311: IF exposed or concerned: Call a POISON CENTER or doctor. P308+P313: If eye irritation persists: Get medical attention. P361+P364: Take off immediately all contaminated clothing and wash it before reuse. P370+P378: In case of fire: Use dry chemical, alcohol foam, carbon dioxide or water spray to extinguish. P403+P405: Store in a well-ventilated place. Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.
Health hazard	<u>t otherwise classified:</u> ds not otherwise classified (HHNOC) - Not Known ards not otherwise classified (PHNOC) - Not Known	

Section 3	Composition / information or	n ingredients			
Chemical Name		CAS #	%	EINECS	
Ethyl alcohol		64-17-5	85.0 - 85.8%	200-578-6	
Isopropyl alcohol		67-63-0	9.0%	200-661-7	
Methanol		67-56-1	4.0 - 4.3%	200-659-6	
Methyl isobutyl keton	e	108-10-1	0.9 - 1.0%	203-550-1	
Thymolphthalein		125-20-2	0.04%	204-729-7	

Section 4 First aid measures

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

EYE CONTACT: CAUSES SERIOUS EYE 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: TOXIC IN CONTACT WITH SKIN. CAUSES SKIN 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. Vapors formed from this product are heavier than air and may travel along the ground to a distant source of ignition and flash back instantly. Flame may not be visible in daylight.

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: Remove all sources of ignition. 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.

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. Keep away from ignition sources.

Section 8	Exposure controls / personal pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Ethanol	STEL: 1000 ppm / 1880 mg/m ³ (A3)	TWA: 1000 ppm / 1900 mg/m ³	TWA: 1000 ppm / 1900 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/MSHAnirator

Section 9	Physical and chemical	properties					
pH: Data not avail Melting / Freezing	ar, coloriess liquid. teristic odor. Data not available. lable. g point: -114°C (-173°F) -80°C (165.2-176°F)	Evaporation rate Flammability (so Explosion limits: Vapor pressure (Vapor density (A	pecific gravity): 0.7919-	vailable. 3% / 19.0% 0°C	Auto-igniti Decompos Viscosity: Molecular	on temperature:	re: Data not available. le. e
Section 10	Stability and reactivity						
Incompatible mat	y: Stable bid: Excessive temperatures, he terials: Strong oxidizers, inorga mposition products: Oxides of	eat, sparks, open flam inic acids and halogen					
Section 11	Toxicological information	on					
Germ cell mutage Carcinogenity: D NTP: No compone IARC classified: G OSHA: No compoi CA Prop 65: W/v cancer and reprod	ent of this product present at leve broup 3: Not classifiable as to its nent of this product present at le ARNING! : This product can exp luctive harm.	els greater than or equ carcinogenicity to hur evels greater than or e	nans. [Isopropanol] qual to 0.1% is identii	fied as a carcinoge	n or potential	carcinogen by OS	
STOT-single expo STOT-repeated ex Aspiration hazare Potential health e Inhalation: Inhalati Ingestion: Ingestion Skin: Contact with Eyes: Contact with Signs and sympt	tion may cause dizziness, drows on causes dizziness, drowsiness n skin causes irritation defatting h eyes may cause blindness. oms of exposure: See Potenti	siness, nausea, vomiti s, decreased reaction, on prolonged contact. al health effects above	ng, inability to concer euphoria, nausea, vo	trate and irritation	of the throat.		cts.
STOT-single expo STOT-repeated ex Aspiration hazare Potential health e Inhalation: Inhalati Ingestion: Ingestion Skin: Contact with Eyes: Contact with Signs and sympt	osure: The substance or mixtur xposure: Data not available d: Data not available effects: tion may cause dizziness, drows on causes dizziness, drowsiness on skin causes irritation defatting h eyes may cause blindness.	siness, nausea, vomiti s, decreased reaction, on prolonged contact. al health effects above	ng, inability to concer euphoria, nausea, vo	trate and irritation	of the throat.		cts.
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STOT-single expo STOT-repeated ex Aspiration hazard Potential health ex Inhalation: Inhalat Ingestion: Ingestid Skin: Contact with Eyes: Contact with Eyes: Contact with Signs and sympt Additional inform Section 12 Toxicity to fish: C Toxicity to fish: C Toxicity to algae: Persistence and o Mobility in soil: N Other adverse eff Section 13 These disposal g regulations may	osure: The substance or mixtur xposure: Data not available d: Data not available offects: tion may cause dizziness, drowsiness on causes dizziness, drowsiness on skin causes irritation defatting h eyes may cause blindness. oms of exposure: See Potenti nation: RTECS #: KQ6300000 Ecological information Oncorhynchus mykiss (fish, fresh ia and other aquatic invertebr Chlorella pyrenoidosa (Algae), degradability: No data available No data available fects: An environmental hazard Disposal consideration:	siness, nausea, vomiti s, decreased reaction, on prolonged contact. ial health effects above [Ethanol] h water), LC50 = 11,20 rates: Daphnia magna EC50 = 9,310 mg/l/grd Bioaccumula PBT and vPv cannot be excluded in s e disposal of catalog	ng, inability to concer euphoria, nausea, vo e. 00 mg/l/24 hours [Eth o(Crustacia), EC50 = owth rate [Ethanol, ab titve potential: No d B assessment: No d n the event of unprofe g-size quantities on	anol] 10,800 mg/l/24 hor solute] ata available data available ssional handling o ly. Federal regul	of the throat. gait and coma urs [Ethanol, 9 disposal. ations may a	a. 9.8% pure] pply to empty c	ontainer. State and/or loc
STOT-single expo STOT-repeated ex Aspiration hazard Potential health ex Inhalation: Inhalat Ingestion: Ingestid Skin: Contact with Eyes: Contact with Eyes: Contact with Eyes: Contact with Signs and sympt Additional inform Section 12 Toxicity to fish: C Toxicity to fish: C Toxicity to algae: Persistence and C Mobility in soil: N Other adverse eff Section 13 These disposal of regulations may Section 14 UN/NA number Hazard class: S	osure: The substance or mixtur xposure: Data not available d: Data not available affects: tion may cause dizziness, drowsiness on causes dizziness, drowsiness n skin causes irritation defatting th eyes may cause blindness. oms of exposure: See Potenti nation: RTECS #: KQ6300000 Ecological information Oncorhynchus mykiss (fish, fresl ia and other aquatic invertebr Chlorella pyrenoidosa (Algae), degradability: No data available to data available fects: An environmental hazard Disposal considerations guidelines are intended for this be different. Dispose of in act Transport information : UN1170 Shippin	siness, nausea, vomiti s, decreased reaction, on prolonged contact. [Ethanol] h water), LC50 = 11,20 rates: Daphnia magna EC50 = 9,310 mg/l/grd Bioaccumula PBT and vPv cannot be excluded in s e disposal of catalog ccordance with all loc g name: Ethanol g group: II	ng, inability to concerr euphoria, nausea, vo e. 00 mg/l/24 hours [Eth o (Crustacia), EC50 = bwth rate [Ethanol, ab titve potential: No d B assessment: No d n the event of unprofe g-size quantities on pocal, state and feder solution Reportab	anol] 10,800 mg/l/24 hor solute] ata available data available ssional handling o ly. Federal regul	of the throat. gait and coma urs [Ethanol, 9 disposal. ations may a contract with	a. 9.8% pure] pply to empty c a licensed che	ontainer. State and/or loc
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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