GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Product

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency USA

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

URINE, ARTIFICIAL DRUG CONTROL

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

Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Synonyms Driver Urine, Patient #3 Urine, Patient #7 Urine	
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 several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P332+P313: If skin irritation occurs: 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 Con	nposition / Information on Ir	ngredients			
Chemical Name		CAS #	%	EINECS	
Water Potassium biphthalate Germaben II Sodium hydroxide FD&C Yellow #10		7732-18-5 877-24-7 Mixture 1310-73-2 8004-92-0	98.412% 1.078% 0.25% 0.19% 0.02%	231-791-2 212-889-4 Mixture 215-185-5 616-849-0	

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.

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)			
	None	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.

approved respirator.							
Section 9	Physical & Chemical Prope	rties					
Appearance: Clear y Odor: No odor. Odor threshold: Da pH: 6.0 Melting / Freezing point:	yellow liquid ta not available. Approximately 0°C (32°F) (water) timately 100°C (212°F) (water)	Evaporation r Flammability Explosion lim Vapor pressu Vapor density Relative density	ate (Water = 1): <1 (solid/gas): Data not : its: Lower / Upper: E re (mm Hg): 14 (water (Air = 1): 0.7 (water)) (Specific gravity): Appr : Complete in water.	oata not available)	Auto-igniti Decompos Viscosity: Molecular		: Data not available re: Data not available. le.
Section 10	Stability & Reactivity						
Conditions to avoid Incompatibilities wi	Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Incompatibilities with other materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides. Excessive temperatures with oxides.						
0							
Section 11	Toxicological Information						
Serious eye damagu Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component OSHA: No component STOT-single expose STOT-repeated expose STOT-repeated expose STOT-repeated expose Aspiration hazard: Potential health effe Inhalation: May be ha Skin: May cause mild Eyes: May cause mild Eyes: May cause mild Eyes: May cause mild Eyes: May cause mild	ation: Data not available e/irritation: Data not available sensitization: Data not available city: Data not available a not available of this product present at levels of tof this product present at levels tof this product present at levels ty: Data not available ure: Data not available Data not available Data not available cets: armful if inhaled. armful if swallowed. d irritation.	reater than or greater than or greater than o greater than o ur knowledge t imize potential	equal to 0.1% is identi r equal to 0.1% is iden ne chemical, physical a	fied as probable, pos lified as a carcinoger	ssible or confir n or potential d	rmed human carc carcinogen by OS	SHA.
Section 12	Ecological Information						
Toxicity to algae: No Persistence and deg Mobility in soil: No	data available and other aquatic invertebrates o data available gradability: No data available	Bioaccum PBT and v	ulative potential: No PvB assessment: No	data available	disposal.		
Section 13	Disposal Considerations						
	delines are intended for the di different. Dispose of in accor Transport Information (US	dance with al	l local, state and fed				
	•		•				
UN/NA number:Not applicableShipping name:Not RegulatedHazard class:Not applicablePacking group:Not applicableReportable Quantity:NoExceptions:Not applicable2016 ERG Guide #Not applicableReportable Quantity:No							
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.							
Compone	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium biphthalate Sodium hydroxide		Listed Listed	Not listed 1,000 lbs (454 kg)	Not listed D002	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Information						
		· · · · -		· · ·			

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

221 Rochester Street

Avon, NY 14414-9409 (585) 226-6177

GENERAL STORAGE CODE GREEN

Section 1

Chemical Product and Company Identification

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CHEMTREC 24 Hour Emergency USA

Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Innovating Science[®] by Aldon Corporation

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Product	URINE, ARTIFICIAL CODEINE	
Synonyms	Passenger #1 Urine, Passenger #2 Urine, Passenger #3Urine, Patient #4 U	Jrine
Section 2	Hazards Identification	
Pictogram Target org GHS Class Skin irritati Eye irritatio GHS Labe H316: Cau	rd: WARNING is: None required ans: None known sification: on (Category 3) on (Category 2B) I information: Hazard statement(s): ses mild skin irritation. ses eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several 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 Con	Composition / Information on Ingredients					
Chemical Name	CAS #	%	EINECS			
Water	7732-18-5	98.821%	231-791-2			
Boric acid	10043-35-3	0.396%	233-139-2			
Potassium chloride	7447-40-7	0.328%	231-211-8			
Germaben II	Mixture	0.25%	Mixture			
Sodium hydroxide	1310-73-2	0.185%	215-185-5			
FD&C Yellow #10	8004-92-0	0.02%	616-849-0			

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.

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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 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)			
	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.

approved respirator	•						
Section 9	Physical & Chemical Prope	erties					
	ata not available. t: Approximately 0°C (32°F) (water) pximately 100°C (212°F) (water)	Flammability Explosion lim Vapor pressu Vapor density Relative density	rate (Water = 1): <1 (solid/gas): Data not itis: Lower / Upper: 1 re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): App): Complete in water.	Data not available r)	Auto-igniti Decompos Viscosity: Molecular	•	: Data not available Ire: Data not available. ble. re
Section 10	Stability & Reactivity						
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation.							
Incompatibilities v	vith other materials: Strong oxidi	zers.					
Hazardous decom	position products: Carbon oxide	es.					
Section 11	Toxicological Information						
Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No compone Reproductive toxid STOT-single expose STOT-repeated exp Aspiration hazard: Potential health ef Inhalation: May be I Skin: May cause m Eyes: May cause m Signs and sympto not available. Exert	It of this product present at levels of nt of this product present at levels ent of this product present at levels city: Data not available sure: Data not available posure: Data not available to Data not available fects: harmful if inhaled. harmful if swallowed. ild irritation.	greater than or s greater than o ur knowledge t imize potential	equal to 0.1% is ident or equal to 0.1% is ider he chemical, physical a	ified as probable, pos tified as a carcinogen	sible or confir or potential c	med human care	SHA.
Section 12	Ecological Information						
Toxicity to algae: N Persistence and de Mobility in soil: No	a and other aquatic invertebrates No data available egradability: No data available	Bioaccum PBT and v	ulative potential: No /PvB assessment: N	o data available	disposal.		
Section 13	Disposal Considerations						
regulations may b	uidelines are intended for the di e different. Dispose of in accor	rdance with a	Il local, state and fed				
Section 14 UN/NA number:	Transport Information (US		•				
Hazard class: N Exceptions: No	ot applicable Packi	ng group: N	Not Regulated lot applicable Not applicable	Reportable Qua	ntity: No	Ma	arine pollutant: No
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.							
Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium chloride		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 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

Section 1

Chemical Product and Company Identification

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

Product URINE, ARTIFICIAL OXYCODONE	
Synonyms Patient #1 Urine	
Section 2 Hazards Identification	
Signal word: WARNING Pictograms: None required Target organs: None known	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.
GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B)	P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.
GHS Label information : Hazard statement(s): H316: Causes mild skin irritation. H320: Causes eye irritation.	

Hazards not otherwise classified:

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

Section 3 Compos	Composition / Information on Ingredients					
Chemical Name	CAS #	%	EINECS			
Water	7732-18-5	98.916%	231-791-2			
Boric acid	10043-35-3	0.396%	233-139-2			
Potassium chloride	7447-40-7	0.328%	231-211-8			
Germaben II	Mixture	0.25%	Mixture			
Sodium hydroxide	1310-73-2	0.09%	215-185-5			
FD&C Yellow #10	8004-92-0	0.02%	616-849-0			

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

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

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: 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.

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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 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)			
	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.

approved respirator	•						
Section 9	Physical & Chemical Prope	erties					
	ata not available. t: Approximately 0°C (32°F) (water) pximately 100°C (212°F) (water)	Flammability Explosion lim Vapor pressu Vapor density Relative density	rate (Water = 1): <1 (solid/gas): Data not itis: Lower / Upper: 1 re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): App): Complete in water.	Data not available r)	Auto-igniti Decompos Viscosity: Molecular	•	: Data not available Ire: Data not available. ble. re
Section 10	Stability & Reactivity						
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation.							
Incompatibilities v	vith other materials: Strong oxidi	zers.					
Hazardous decom	position products: Carbon oxide	es.					
Section 11	Toxicological Information						
Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No compone Reproductive toxid STOT-single expose STOT-repeated exp Aspiration hazard: Potential health ef Inhalation: May be I Skin: May cause m Eyes: May cause m Signs and sympto not available. Exert	It of this product present at levels of nt of this product present at levels ent of this product present at levels city: Data not available sure: Data not available posure: Data not available to Data not available fects: harmful if inhaled. harmful if swallowed. ild irritation.	greater than or s greater than o ur knowledge t imize potential	equal to 0.1% is ident or equal to 0.1% is ider he chemical, physical a	ified as probable, pos tified as a carcinogen	sible or confir or potential c	med human care	SHA.
Section 12	Ecological Information						
Toxicity to algae: N Persistence and de Mobility in soil: No	a and other aquatic invertebrates No data available egradability: No data available	Bioaccum PBT and v	ulative potential: No /PvB assessment: N	o data available	disposal.		
Section 13	Disposal Considerations						
regulations may b	uidelines are intended for the di e different. Dispose of in accor	rdance with a	Il local, state and fed				
Section 14 UN/NA number:	Transport Information (US		•				
Hazard class: N Exceptions: No	ot applicable Packi	ng group: N	Not Regulated lot applicable Not applicable	Reportable Qua	ntity: No	Ma	arine pollutant: No
Section 15 Regulatory Information							
A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.							
Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium chloride		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 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

Chemical Product and Company Identification

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

Not for drug, food or household use.

Product URINE, ARTIFICIAL HYDROCODONE	
Synonyms Patient #2 Urine, Patient #14 Urine	
Section 2 Hazards Identification	
Signal word: WARNING Pictograms: None required Target organs: None known	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B)	P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.
GHS Label information: Hazard statement(s): H316: Causes mild skin irritation. H320: Causes eye irritation.	

Hazards not otherwise classified:

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

Section 3	Composition / Informat	ion on Ingredients			
Chemical Name		CAS #	%	EINECS	
Water		7732-18-5	98.885%	231-791-2	
Potassium phospha	te, monobasic	7778-77-0	0.719%	231-913-4	
Sodium hydroxide		1310-73-2	0.126%	215-185-5	
Germaben II		Mixture	0.25%	Mixture	
FD&C Yellow #10		8004-92-0	0.02%	616-849-0	

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.

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 Pro	tection		
Exposure Limiter	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	Potassium phosphate	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.

approved respirato							
Section 9	Physical & Chemical	Properties					
	Data not available. able nt: Approximately 0°C (32°F) (wate oximately 100°C (212°F) (wate	Flammability (Explosion limi Vapor pressur r) Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not a ts: Lower / Upper: D e (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appr : Complete in water.	ata not available)	Auto-igniti Decompos Viscosity: Molecular	•	: Data not available re: Data not available. ile. e
Section 10	Stability & Reactivity						
Chemical stability Conditions to avo	: Stable id: Excessive temperatures		ous polymerization: V	Will not occur.			
Incompatibilities	with other materials: Acids	, alkalies, and air will o	change the buffer's abi	lity.			
Hazardous decom	position products: Therma	al decomposition will y	vield phosphates and s	odium oxide and/or h	ydroxides.		
Section 11	Toxicological Informa	ition					
Carcinogenity: D. NTP: No component IARC: No component OSHA: No component STOT-single expo STOT-repeated expo STOT-repeated expo STOT-repeated expo STOT-repeated expo Aspiration hazard Potential health en Industion: May be Ingestion: May be Skin: May cause no Eyes: May cause no Signs and sympto not available. Exer Additional inform	nt of this product present at leant of this product present at ent of this product present at city: Data not available sure: Data not available posure: Data not available ffects: harmful if inhaled. harmful if swallowed. hild irritation. mid irritation. mos of exposure: To the be roise appropriate procedures ation: RTECS #: TC661500	levels greater than or t levels greater than o est of our knowledge th to minimize potential 0 [Potassium phospha	equal to 0.1% is identi r equal to 0.1% is iden ne chemical, physical a hazards.	fied as probable, pos ified as a carcinogen	sible or confii	med human carc	o j
Section 12	Ecological Informatio	n					
Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effe	a and other aquatic inverte No data available egradability: No data availa o data available ects: An environmental haza	able Bioaccum PBT and v ard cannot be excluded	ulative potential: No PvB assessment: No	data available	disposal.		
Section 13	Disposal Considerati						
	uidelines are intended for be different. Dispose of in						ontainer. State and/or local mical disposal agency.
Section 14	Transport Informatio						
UN/NA number: Hazard class: N Exceptions: No	lot applicable Fot applicable 2	Shipping name: N Packing group: N 2016 ERG Guide #	ot applicable	Reportable Qua	ntity: No	Ма	rine pollutant: No
Section 15	Regulatory Information						
	red to be listed if the CAS numbe	er for the anhydrous form TSCA		RCRA code	DSL	NDSL	CA Prop 65
Potassium phospha Sodium hydroxide		Listed Listed	CERLCA (RQ) Not listed 1,000 lbs (454 kg)	Not listed D002	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or
Section 16	Other Information						reproductive toxicity.

Section 16 **Other Information**

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

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Section 1

Chemical Product and Company Identification

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URINE, ARTIFICIAL MORPHINE Product Patient #5 Urine, Patient #6 Urine, Patient #12 Urine, Patient #13 Urine, Patient #15 Urine Synonyms Section 2 **Hazards Identification** Signal word: WARNING Precautionary statement(s): Pictograms: GHS07 P264: Wash hands thoroughly after handling. Target organs: None known P280: Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. GHS Classification: Eye irritation (Category 2A) GHS Label information: Hazard statement(s): H319: Causes serious eve irritation.

Hazards not otherwise classified:

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

Section 3 Co	mposition / Information on Ing	gredients			
Chemical Name		CAS #	%	EINECS	
Water		7732-18-5	>97.613%	231-791-2	
Citric acid, anhydrous		77-92-9	1.295%	201-069-1	
Sodium citrate, dihydrate		6132-04-3	0.822%	None listed	
Germaben II		Mixture	0.25%	Mixture	
FD&C Yellow #10		8004-92-0	0.02%	616-849-0	

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.

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

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.

-	ool, well-ventilated area away	•	ces			
Section 8	Exposure Controls / Per					
Exposure Limits:	Chemical Name Not applicable.		GIH (TLV) established.	OSHA (PEL) None established.	NIOSH (REL) 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 protect approved respirator.	ion: None should be needed i	n normal laboratory handlin	g at room temperature	s. If misty conditions prevail,	, work in fume hood or wear a NIOSH/MSHA-	
Section 9	Physical & Chemical Pro	operties				
Appearance: Clear, Odor: No odor. Odor threshold: No pH: 3 Melting / Freezing p Boiling point: ~ 100 Flash point: Not fla	oint: ~ 0°C (~ 32°F) [water] °C (212°F) [water]	Evaporation rate (Water Flammability (solid/gas) Explosion limits: Lower Vapor pressure (mm Hg Vapor density (Air = 1): Relative density (Specific gr Solubility(ies): Complet	: Data not available. r / Upper: Data not av): 14 (water) 0.7 (water) ravity): Approximately	ailable Auto-ignition to Decomposition Viscosity: Data Molecular form	nula: Mixture	
Section 10	Stability & Reactivity					
Chemical stability:		Hazardous poly	merization: Will not o	ccur.		
	: Excessive temperatures wh					
Incompatibilities wi	th other materials: Strong or	xidizers and strong bases				
Hazardous decomp	osition products: Carbon ox	ides, nitrogen oxides, and s	sulfur oxides			
Section 11	Toxicological Informatio	n				
Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No component OSHA: No component Reproductive toxici STOT-single exposig STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: May be hi Ingestion: May be hi Skin: May cause mil Eyes: May cause mil Signs and symptom not available. Exerci	of this product present at leve t of this product present at leve t of this product present at leve ty: Data not available ty: Data not available Data not available Data not available Data not available Data not 	able Is greater than or equal to C els greater than or equal to vels greater than or equal to of our knowledge the chemic minimize potential hazards.	0.1% is identified as a k 0.1% is identified as p 0.1% is identified as a 0.1% is identified as a	obable, possible or confirme	d human carcinogen by IARC.	
	•					
Toxicity to daphnia Toxicity to algae: So Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gui	ts: An environmental hazard Disposal Considerations delines are intended for the	ates: Daphnia magna (Crus lae) EC3: 640 mg/l/7 days [l e Bio PBT cannot be excluded in the e s e disposal of catalog-size	tacea) EC50: ca. 120 (Citric acid anhydrous] accumulative potenti F and vPvB assessme event of unprofessional	ng/I/72 hours [Citric acid anh al: No data available ent: No data available handling or disposal. leral regulations may appl	lydrous] ly to empty container. State and/or local licensed chemical disposal agency.	
Section 14	Transport Information (
UN/NA number: Hazard class: Not Exceptions: Not	Not applicable Shi ot applicable Pac	pping name: Not Regu king group: Not applie 6 ERG Guide # Not ap	ulated cable Repor	table Quantity: No	Marine pollutant: No	
Section 15	Regulatory Information					
A chemical is considere Compone Citric acid, anhydrou Sodium citrate		TSCA CER Listed	RLCA (RQ) RCR Not listed Not	A code DSL t listed Listed t listed Not listed	NDSL CA Prop 65 Not listed Not listed This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.	
Section 16	Other Information					
The information contain dent determinations of s	ed herein is furnished without war suitability and completeness of info ncy for Research on Cancer, OSH	ormation from all sources to ass	sure proper use of these n ealth Administration, STOT	naterials and the safety and heal	nformation gathered by them and must make indepe th of employees. NTP: National Toxicology Program SE: Single Exposure, RE: Repeated Exposure, Supercedes: August 7, 201	

Section 1

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency USA

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Innovating Science[®] by Aldon Corporation

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

Product UF	RINE, ARTIFICIAL ECSTASY	
Synonyms Pati	ient #8 Urine	
Section 2	Hazards Identification	
Signal word: W. Pictograms: No Target organs:	one required	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.
GHS Classificati Skin irritation (Ca Eye irritation (Cat	ategory 3)	P337+P313: If eye irritation persists: Get medical attention. P332+P313: If skin irritation occurs: Get medical attention.
GHS Label infor H316: Causes mi H320: Causes ey		

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	98.362%	231-791-2	
Potassium biphthalate	877-24-7	1.078%	212-889-4	
Germaben II	Mixture	0.250%	Mixture	
Sodium hydroxide	1310-73-2	0.190%	215-185-5	
Potassium iodide	7681-11-0	0.062%	231-659-4	
lodine	7553-56-2	0.038%	231-442-4	
FD&C Yellow #10	8004-92-0	0.020%	616-849-0	

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.

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 Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits:	None	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.

approved respirator	•						
Section 9	Physical & Chemic	cal Properties					
	pata not available. t: Approximately 0°C (32°F) (ν oximately 100°C (212°F) (w	Water) Relative density (Explosion limit Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not ts: Lower / Upper: [e (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): Appi Complete in water.	Data not available r)	Auto-igniti Decompos Viscosity: Molecular f	•	: Data not available re: Data not available. ble. e
Section 10	Stability & Reactiv	ity					
Chemical stability Conditions to avo	: Stable		ous polymerization:	Will not occur.			
	vith other materials: St	•					
Hazardous decom	position products: Car	bon oxides.					
Section 11	Toxicological Infor	mation					
Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No componer STOT-single expose STOT-repeated ex Aspiration hazard Potential health ef Inhalation: May be Ingestion: May be Skin: May cause m Eyes: May cause r Signs and sympto not available. Exer	nt of this product present nt of this product present ent of this product present city: Data not available sure: Data not available posure: Data not available ffects: harmful if inhaled. harmful if swallowed. hild irritation. ms of exposure: To the cise appropriate procedu	at levels greater than or e t at levels greater than or nt at levels greater than o ble e best of our knowledge th res to minimize potential	equal to 0.1% is ident r equal to 0.1% is iden ne chemical, physical a	fied as probable, pos tified as a carcinogen	sible or confir or potential c	med human card	0
Additional informa Section 12	ation: RTECS #: Data n Ecological Informa						
Toxicity to fish: N Toxicity to daphnia Toxicity to algae: N Persistence and de Mobility in soil: N	o data available a and other aquatic inve No data available egradability: No data av o data available	ertebrates: No data avail vailable Bioaccum	ulative potential: No PvB assessment: No	o data available	disposal.		
Section 13	Disposal Consider	rations					
These disposal gu	uidelines are intended e different. Dispose o	for the disposal of cata f in accordance with all	local, state and fed				ontainer. State and/or local mical disposal agency.
Section 14	Transport Informa	tion (US DOT / CANAI	DA TDG)				
UN/NA number: Hazard class: N Exceptions: No	lot applicable	Shipping name: N Packing group: N 2016 ERG Guide #	ot applicable	Reportable Quar	ntity: No	Ma	arine pollutant: No
Section 15	Regulatory Informa						
		mber for the anhydrous form	is on the Inventory list.				
Compor	nent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium biphthala Sodium hydroxide	ate	Listed Listed	Not listed 1,000 lbs (454 kg)	Not listed D002	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Information						

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

Section 1

Chemical Product and Company Identification

Page E1 of E2

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

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"cutting edge science for the classroom"

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

Product URINE, ARTIFICIAL MARIJUANA Synonyms Patient #9 Urine Section 2 Hazards Identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Target organs: None known P305+P338: IF IN EYES: Rinse cautiously with water for several min Remove contact lenses, if present and easy to do. Continue rinsing. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 2B) P332+P313: If skin irritation occurs: Get medical attention.	Synonyms Patient #9 Urine Section 2 Hazards Identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Parget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. GHS Classification: P305+P351+P331: If present and easy to do. Continue rinsing. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. Eye irritation (Category 2B) P316: Causes mild skin irritation.	Synonyms Patient #9 Urine Section 2 Hazards Identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Target organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention.	5 5	
Section 2 Hazards Identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Farget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several min Remove contact lenses, if present and easy to do. Continue rinsing. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention.	Section 2 Hazards Identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Farget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. Eye irritation: Hazard statement(s): H316: Causes mild skin irritation. Remove contact lenses mild skin irritation.	Section 2 Hazards Identification Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Farget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. Eye irritation (Category 2B) Fist Label information: Hazard statement(s): H316: Causes mild skin irritation. Paint irritation.	Product URINE, ARTIFICIAL MARIJUANA	
Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Farget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several min Remove contact lenses, if present and easy to do. Continue rinsing. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention.	Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Parget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. Eye irritation (Category 2B) P332+P313: If skin irritation occurs: Get medical attention. B4S Label information: Hazard statement(s): Hazard statement(s): H316: Causes mild skin irritation. Parget organs:	Signal word: WARNING Precautionary statement(s): Pictograms: None required P264: Wash hands thoroughly after handling. Parget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. Eye irritation (Category 2B) P332+P313: If skin irritation occurs: Get medical attention. B4S Label information: Hazard statement(s): Hazard statement(s): H316: Causes mild skin irritation. Parget organs:	Synonyms Patient #9 Urine	
Pictograms: None required P264: Wash hands thoroughly after handling. Target organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several min Remove contact lenses, if present and easy to do. Continue rinsing. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention.	Pictograms: None required P264: Wash hands thoroughly after handling. Farget organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. GHS Label information: Hazard statement(s): Hazard statement(s): H316: Causes mild skin irritation. Passe mild skin irritation.	Pictograms: None required P264: Wash hands thoroughly after handling. Target organs: None known P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. GHS Classification: P337+P313: If eye irritation persists: Get medical attention. Skin irritation (Category 3) P332+P313: If skin irritation occurs: Get medical attention. GHS Label information: Hazard statement(s): H316: Causes mild skin irritation.	Section 2 Hazards Identification	
			Pictograms: None required Target organs: None known GHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B) GHS Label information: Hazard statement(s):	P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 Ingredients					
Chemical Name	CAS #	%	EINECS		
Water	7732-18-5	97.461%	231-791-2		
Potassium biphthalate	877-24-7	1.078%	212-889-4		
Ethylenediaminetetraacetic acid	6381-92-6	1.00%	200-449-4		
Germaben II	Mixture	0.25%	Mixture		
Sodium hydroxide	1310-73-2	0.19%	215-185-5		
FD&C Yellow #10	8004-92-0	0.02%	616-849-0		

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

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

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: 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.

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.	None	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.

Odor: No odor Flam Odor threshold: Data not available. Flam pH: 6.0 Vapo Melting / Freezing point: Approximately 0°C (32°F) (water) Vapo Boiling point: Approximately 100°C (212°F) (water) Relatir	poration rate (Water = 1): <1 nmability (solid/gas): Data not available. plosion limits: Lower / Upper: Data not available por pressure (mm Hg): 14 (water) por density (Air = 1): 0.7 (water) tive density (Specific gravity): Approximately 1.0 (water) ubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur. 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: Oral-rat LD50: >2000 mg/kg [Ethylenediaminetetraacetic acid] 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.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed. Skin: May cause mild irritation.

Eyes: May cause mild irritation.

Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

Additional information: RTECS #: AH4025000 [Ethylenediaminetetraacetic acid]

Section 12 Ecological Information

Toxicity to fish: Lepomis macrochirus (fish, fresh water), LC50 = 41 mg/L/96 hours [Ethylenediaminetetraacetic acid] Toxicity to daphnia and other aquatic invertebrates: Artemia salina (Crustacea), LC100 = 200 mg/L/24 hours [Ethylenediaminetetraacetic acid] Toxicity to algae: Scenedesmus subspicatus (Algae), EC50 = 1.01 mg/L/72 hours [Ethylenediaminetetraacetic acid] Persistence and degradability: No data available Bioaccumulative potential: No data available PBT and vPvB assessment: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **Disposal Considerations** Section 13 These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Transport Information (US DOT / CANADA TDG) Section 14 UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No 2016 ERG Guide # Not applicable Exceptions: Not applicable Section 15 **Regulatory Information** A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list. CERLCA (RQ) RCRA code DSL NDSL Component TSCA CA Prop 65 This product does not contain Potassium biphthalate Listed Not listed Not listed Listed Not listed any chemicals known to the State Sodium hydroxide Listed 1,000 lbs (454 kg) D002 Listed Not listed of California to cause cancer or

Section 16 **Other Information**

EDTA

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

Not listed

Listed

Not listed

Listed

Not listed

reproductive toxicity.

GENERAL STORAGE CODE GREEN

Section 1

Chemical Product and Company Identification

Page E1 of E2

Innovating Science[®] by Aldon Corporation

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

Signal word: WARNING Preca Pictograms: None required P264 Target organs: None known P305	autionary statement(s): Wash hands thoroughly after handling.
Signal word: WARNING Preca Pictograms: None required P264 Target organs: None known P305	
Pictograms: None required P264 Target organs: None known P305	
GHS Classification: P337	+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes we contact lenses, if present and easy to do. Continue rinsing. +P313: If eye irritation persists: Get medical attention. +P313: If skin irritation occurs: 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 Ingredients						
Chemical Name	CAS #	%	EINECS			
Water	7732-18-5	97.962%	231-791-2			
Potassium biphthalate	877-24-7	1.078%	212-889-4			
Dextrose, monohydrate	5996-10-1	0.50%	200-075-1 (as CAS # 50-99-7)			
Germaben II	Mixture	0.25%	Mixture			
Sodium hydroxide	1310-73-2	0.19%	215-185-5			
FD&C Yellow #10	8004-92-0	0.02%	616-849-0			

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

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

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: 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.

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

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

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	None	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.

approved respirato					
Section 9	Physical & Chemical Prop	perties			
	Data not available. nt: Approximately 0°C (32°F) (water) roximately 100°C (212°F) (water)	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not ava Vapor pressure (mm Hg): 14 (water) Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1 Solubility(ies): Complete in water.	ilable Decompo Viscosity Molecular		e: Data not available ure: Data not available. ble. re
Section 10	Stability & Reactivity				
Incompatibilities	y: Stable bid: Excessive temperatures whi- with other materials: Strong ox nposition products: Carbon oxi	idizers.	ır.		
Section 11	Toxicological Information				
Serious eye dama Respiratory or sk Germ cell mutage Carcinogenity: D NTP: No compone IARC: No compone OSHA: No compore Reproductive tox STOT-single expo	ent of this product present at level- ent of this product present at leve nent of this product present at lev icity: Data not available osure: Data not available		able, possible or conf	irmed human car	0
Aspiration hazard Potential health e Inhalation: May be Ingestion: May be Skin: May cause r Eyes: May cause Signs and symptot not available. Exe	e harmful if inhaled. harmful if swallowed. nild irritation. mild irritation. oms of exposure: To the best of rcise appropriate procedures to n	f our knowledge the chemical, physical and toxicolo ninimize potential hazards. Glucose anhydrous CAS # 50-99-7]	ical properties have r	not been thorougi	hly investigated. Specific data is
Aspiration hazard Potential health e Inhalation: May be Ingestion: May be Skin: May cause r Eyes: May cause Signs and symptot not available. Exe	: Data not available iffects: harmful if inhaled. harmful if swallowed. nild irritation. mild irritation. oms of exposure: To the best of rcise appropriate procedures to n	ninimize potential hazards.	ical properties have r	not been thoroug	hly investigated. Specific data is
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Aspiration hazard Potential health e Inhalation: May be Ingestion: May be Skin: May cause r Eyes: May cause Signs and sympto not available. Exe Additional inform Section 12 Toxicity to fish: M Toxicity to fish: M Toxicity to daphm Toxicity to daphm Toxicity to algae: Persistence and c Mobility in soil: M Other adverse effe Section 13 These disposal g	Data not available ffects: harmful if inhaled. harmful if swallowed. mild irritation. mild irritation. oms of exposure: To the best of rcise appropriate procedures to n tation: RTECS #: LZ6600000 [G Ecological Information No data available ia and other aquatic invertebra No data available degradability: No data available data available ects: An environmental hazard c Disposal Considerations	hinimize potential hazards. Slucose anhydrous CAS # 50-99-7] tes: No data available Bioaccumulative potential: No data availal PBT and vPvB assessment: No data availa	le ble ndling or disposal. I regulations may a	pply to empty c	container. State and/or local
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Aspiration hazard Potential health e Inhalation: May be Ingestion: May be Skin: May cause r Eyes: May cause Signs and sympto not available. Exe Additional inform Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to daphni Toxicity to dapae: Persistence and c Mobility in soil: N Other adverse effor Section 13 These disposal gur regulations may b Section 14	Data not available offects: a harmful if inhaled. harmful if swallowed. mild irritation. mild irritation. oms of exposure: To the best of rcise appropriate procedures to n tation: RTECS #: LZ6600000 [G Ecological Information No data available ia and other aquatic invertebra No data available degradability: No data available data available deta available dota available dota available dota available dota available dota available dota available deta available deta available deta available deta available dota available	hinimize potential hazards. Slucose anhydrous CAS # 50-99-7] tes: No data available Bioaccumulative potential: No data availal PBT and vPvB assessment: No data availal annot be excluded in the event of unprofessional ha disposal of catalog-size quantities only. Federal ordance with all local, state and federal regulat S DOT / CANADA TDG) oping name: Not Regulated	le ble ndling or disposal. I regulations may a	pply to empty c a licensed che	container. State and/or local
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Aspiration hazard Potential health e Inhalation: May be Ingestion: May be Skin: May cause r Eyes: May cause Signs and symptr not available. Exe Additional inform Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to daphen Toxicity	E Data not available ffects: a harmful if inhaled. harmful if swallowed. mild irritation. mild irritation. oms of exposure: To the best of rcise appropriate procedures to n tation: RTECS #: LZ6600000 [G Ecological Information No data available ia and other aquatic invertebrat No data available degradability: No data available degradability: No data available ects: An environmental hazard c Disposal Considerations uidelines are intended for the o different. Dispose of in acco Transport Information (U : Not applicable	hinimize potential hazards. Slucose anhydrous CAS # 50-99-7] tes: No data available Bioaccumulative potential: No data availal PBT and vPvB assessment: No data availal annot be excluded in the event of unprofessional ha disposal of catalog-size quantities only. Federal ordance with all local, state and federal regulat S DOT / CANADA TDG) uping name: Not Regulated king group: Not applicable ERG Guide # Not applicable the anhydrous form is on the Inventory list.	le ble ndling or disposal. Il regulations may a ons or contract with ble Quantity: No	pply to empty c n a licensed che	container. State and/or local emical disposal agency. arine pollutant: No
Aspiration hazard Potential health e Inhalation: May be Ingestion: May be Skin: May cause r Eyes: May cause Signs and symptr not available. Exe Additional inform Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to dapher Toxicity to dapher Toxicity to dapher Toxicity to dapher Toxicity to dapher Toxicity to dapher Toxicity to dapher Section 13 These disposal guregulations may b Section 14 UN/NA number: Hazard class: N Exceptions: N Section 15	Data not available offects: a harmful if inhaled. harmful if swallowed. mild irritation. mild irritation. oms of exposure: To the best of rcise appropriate procedures to n tation: RTECS #: LZ6600000 [G Ecological Information Vo data available is and other aquatic invertebrai No data available degradability: No data available degradability: No data available ects: An environmental hazard c Disposal Considerations udelines are intended for the e defifierent. Dispose of in accor Transport Information (U C. Not applicable Pacl ot applicable 2016 Regulatory Information red to be listed if the CAS number for rent	hinimize potential hazards. Slucose anhydrous CAS # 50-99-7] tes: No data available Bioaccumulative potential: No data availal PBT and vPvB assessment: No data availal annot be excluded in the event of unprofessional ha disposal of catalog-size quantities only. Federa ordance with all local, state and federal regulat S DOT / CANADA TDG) uping name: Not Regulated king group: Not applicable BRG Guide # Not applicable	le ble ndling or disposal. Il regulations may a ons or contract with ble Quantity: No ble Quantity: No	pply to empty c a licensed che	container. State and/or local emical disposal agency.
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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

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency USA

Innovating Science[®] by Aldon Corporation "cutting edge science for the classroom"

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

Product URINE, ARTIFICIAL METHAMPHETAMINE	
Synonyms Patient #11 Urine	
Section 2 Hazards Identification	
Signal word: WARNING Pictograms: None required Farget organs: None known SHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B) SHS Label information: Hazard statement(s): 1316: Causes mild skin irritation. 1320: Causes eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P332+P313: If skin irritation occurs: 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	3 Composition / Information on Ingredients				
Chemical Name		CAS #	%	EINECS	
Water		7732-18-5	98.552%	231-791-2	
Potassium biphthalat	e	877-24-7	1.078%	212-889-4	
Germaben II		Mixture	0.25%	Mixture	
Sodium hydroxide		1310-73-2	0.10%	215-185-5	
FD&C Yellow #10		8004-92-0	0.02%	616-849-0	

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.

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.	None	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.

approved respirator	•						
Section 9	Physical & Chemic	al Properties					
	vata not available. t: Approximately 0°C (32°F) (ν oximately 100°C (212°F) (w	Water) Relative density (Explosion limit Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not a ts: Lower / Upper: D e (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appr : Complete in water.	Data not available)	Auto-igniti Decompos Viscosity: Molecular		: Data not available I re: Data not available. ble. e
Section 10	Stability & Reactivi	ity					
	id: Excessive temperatur	res which cause evapora	bus polymerization:	Will not occur.			
•	vith other materials: Str position products: Carl	•					
Section 11	Toxicological Inform	mation					
Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No componer Reproductive toxis STOT-single expos STOT-repeated exp Aspiration hazard: Potential health of Inhalation: May be Ingestion: May be Skin: May cause m Eyes: May cause m Signs and sympto not available. Exer	nt of this product present a nt of this product present ent of this product present city: Data not available sure: Data not available posure: Data not available fects: harmful if inhaled. harmful if swallowed. iild irritation. ms of exposure: To the cise appropriate procedur	at levels greater than or e t at levels greater than or t at levels greater than or t at levels greater than of ble t best of our knowledge th res to minimize potential	equal to 0.1% is identi r equal to 0.1% is iden ne chemical, physical a	fied as probable, pos: tified as a carcinogen	sible or confir or potential c	med human car arcinogen by O	0
Additional information Section 12	ation: RTECS #: Data no Ecological Information						
Toxicity to algae: N Persistence and de Mobility in soil: No	o data available a and other aquatic inve No data available egradability: No data av o data available	ertebrates: No data avail vailable Bioaccum	ulative potential: No PvB assessment: No	data available	disposal.		
Section 13	Disposal Consider						
	e different. Dispose of		local, state and fed				container. State and/or local emical disposal agency.
UN/NA number:	•	Shipping name: N	•				
Hazard class: N Exceptions: No	lot applicable	Packing group: N 2016 ERG Guide #	ot applicable	Reportable Quar	ntity: No	Ma	arine pollutant: No
Section 15	Regulatory Informa						
A chemical is consider		mber for the anhydrous form	is on the Inventory list.				
Compor	ient	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium biphthala Sodium hydroxide	ate	Listed Listed	Not listed 1,000 lbs (454 kg)	Not listed D002	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other Information						

ection 16 Other Information

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

Section 1

Chemical Product and Company Identification

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CHEMTREC 24 Hour Emergency USA

Innovating Science[®] by Aldon Corporation

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 Phone Number (800) 424-9300 For laboratory and industrial use only.

"CI	utting edge science for the classroom"	(585) 226-6177 Not for drug, food or household use.
Product	BENEDICT'S QUALITATIVE SOLUTION	
Synonyms	Synthetic Cocaine Indicator	
Section 2	Hazards Identification	
Pictogram Target orga GHS Class Skin irritatio Eye irritatio Acute toxici Acute toxici Acute toxici Acute toxici Aquatic tox GHS Label H302: Harm H313: May H316: Caus H320: Caus H320: Caus H320: Caus	n (Category 3) n (Category 2B) ity, oral (Category 4) ity, dermal (Category 5) ity, inhalation (Category 4) icity (Category 1) information: Hazard statement(s): nful if swallowed. be harmful in contact with skin. ses mild skin irritation. ses eye irritation. nful if inhaled. toxic to aquatic life with long lasting effects.	 Precautionary statement(s): P261: Avoid breathing 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. P273: Avoid release to the environment. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P332+P313: If skin irritation occurs: Get medical attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P331: Collect spillage. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.
Hazarda n	ot othorwise classified:	

Hazards not otherwise classified:

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

tion 3 Composition / Information on Ingredients					
CAS #	%	EINECS			
7732-18-5	77.9%	231-791-2			
68-04-2	13.7%	200-675-3			
497-19-8	6.9%	207-838-8			
7758-99-8	1.5%	231-847-6 (anhydrous)			
	CAS # 7732-18-5 68-04-2 497-19-8	CAS # % 7732-18-5 77.9% 68-04-2 13.7% 497-19-8 6.9%	CAS # % EINECS 7732-18-5 77.9% 231-791-2 68-04-2 13.7% 200-675-3 497-19-8 6.9% 207-838-8		

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.

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.

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. away from incompatible substances

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.	Cupric sulfate	TWA: 0.2 mg/m ³ copper fume as Cu	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 & Chemical Prop	perties	
Appearance: Clear, pale blue 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 & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatibilities with other materials: Acids and strong oxidizers.

Hazardous decomposition products: Carbon oxides.

Section 11 **Toxicological Information**

Acute toxicity: Oral-rat LD50: 300 mg/kg (Copper sulfate) - Dermal-rat LD50: >1000 mg/kg (Copper sulfate) - Inhalation-rat LC50: 2.3 mg/l 2 hour (Sodium carbonate) Skin corrosion/irritation: Slightly irritating

Serious eye damage/irritation: Slightly irritating

Respiratory or skin sensitization: Not a sensitizer

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.

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: 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 #: Not available for this mixture.

Section 12 **Ecological Information**

Toxicity to fish: Salmo gairdneri (Fish, estuary, fresh water) LC50: < .75-.84 mg/l 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
and a second s				

PBT and vPvB assessment: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Disposal Considerations Section 13

Section 14 Trai	nsport Information (US DOT / CANADA TDG)
regulations may be differ	ent. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.
	es are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local

UN/NA number: Not applicable Hazard class: Not applicable Exceptions: Not applicable	Shipping name: N Packing group: N 2016 ERG Guide #	ot applicable	Reportable Qua	antity: No	Ma	arine pollutant: No
Section 15 Regulatory Inform	nation					
A chemical is considered to be listed if the CAS n	umber for the anhydrous form	is on the Inventory list.				
Component	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	ı					reproductive toxicity.
The information contained berein is furnished with	hout warranty of any kind Em	ployers should use this	information only as a su	innlement to othe	information dath	ered by them and must make indepen

dent 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

Section 1

Chemical Product and Company Identification

Page E1 of E2

CHEMTREC 24 Hour Emergency USA

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

Product PHENOLPHTHALEIN SOLUTION	
Synonyms 1% Phenolphthalein in 95% Ethanol / Phenolphthalein Indicat	or , Synthetic Ethanol Test Reagent
Section 2 Hazards Identification	
Signal word: DANGER Pictograms: GHS02 / GHS07 / GHS08 / GHS06 Target organs: Eyes, Central nervous system, Liver, Kidneys. Image: Signal word: David State of Signal Category 2 Image: Signal word: Category 2) Acute toxicity, inhalation (Category 2) Acute toxicity, inhalation (Category 2) Skin irritation (Category 2) Eye irritation (Category 2) Category 1B) Reproductive toxicity (Category 1B) Reproductive toxicity (Category 2) STOT-SE (Category 2) STOT-SE (Category 3) GHS Label information: Hazard statement: H225: Highly flammable liquid and vapour. H315: Causes skin irritation. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. H341: Suspected of causing genetic defects. H350: May cause cancer. H361f: Suspected of damaging fertility. H371: May cause damage to organs.	 Precautionary statement: 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. 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+P351+P338: IF IN EYES: Rinse cautiously with water for several 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 clothing. P312: Call a POISON CENTER or doctor if you feel unwell. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P403+P233: Store in a well-ventilated place. Keep container tightly closed. P405: Store locked up. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Section 3 Composition / Information on Ingredients					
Chemical Name	CAS #	%	EINECS		
Ethyl alcohol	64-17-5	80.75 - 81.51%	200-578-6		
Isopropyl alcohol	67-63-0	8.55%	200-661-7		
Water	7732-18-5	5.00%	231-791-2		
Methanol	67-56-1	3.80 - 4.08%	200-659-6		
Phenolphthalein	77-09-8	1.00%	201-004-7		
Methyl isobutyl ketone	108-10-1	0.85 - 0.95%	203-550-1		

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. 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.

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 Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
	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/MSHAapproved respirator.

approved respirator.							
Section 9	Physical & Chemical Pro	perties					
Appearance: Clear, Odor: Mild characte Odor threshold: Da pH: Data not availab Melting / Freezing p Boiling point: 74-80 Flash point: 5°C (4'	ristic odor. ta not available. ile. oint: -114°C (-173°F)*)°C (165.2-176°F)*	Evaporation rate (B Flammability (solid/ Explosion limits: Lo Vapor pressure (mm Vapor density (Air = Relative density (Specit Solubility(ies): Solu	gas): Data not ava ower / Upper: 4.0% I Hg): Ca 50 @ 20' 1): Ca 1.5* fic gravity): 0.7919-0.'	ilable. 6(V) / 20.0%(V)* °C*	Auto-ignition Decompositi Viscosity: D Molecular fo	fficient: (n-octanol / n temperature: 400° on temperature: Da ata not available. rmula: Mixture aight: Mixture	()
Section 10	Stability & Reactivity						
Chemical stability: Conditions to avoid Incompatible mater		it, sparks, open flame and cacids and halogens.	Iymerization: Will nd other sources of				
Section 11	Toxicological Information	l					
Skin corrosion/irrit. Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: (R) Reasonabl IARC classified: Gro OSHA: No compone CA Prop 65. WAR fornia to cause cance. Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health effi Inhalation: Inhalation Ingestion: Ingestion Skin: Contact with s Eyes: Contact with s	Acute toxicity: Oral-rat LD50: 7060 mg/kg ; Inhalation-rat LC50: 124.7 mg/l/4hours [Ethanol] Skin corrosion/irritation: Skin-rabbit - Slight irritant. Serious eye damage/irritation: Eyes-rabbit - Severe irritant. Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: (R) Reasonably anticipated to be a human carcinogen. [Phenolphthalein] IARC classified: Group 2B: Possibly carcinogenic to humans. [Phenolphthalein] 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: A WARNINGI: This product can expose you to chemicals including Phenolphthalein, Methanol, and Methyl isobutyl ketone, which are known to the State of California to cause cancer and birth defects or other reproductive harm. Reproductive toxicity: Data not available STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects. STOT-repeated exposure: Data not available Potential health effects: Inhalation: Inhalation mary cause dizziness, drowsiness, nausea, vomiting, inability to concentrate and irritation of the throat. Ingestion: Ingestion: causes irritation defatting on prolonged contact.						known to the State of Cali-
Section 12	Ecological Information						
Toxicity to daphnia Toxicity to algae: C Persistence and de Mobility in soil: No	corhynchus mykiss (fish, fresh and other aquatic invertebrat hlorella pyrenoidosa (Algae), Et gradability: No data available data available ts: An environmental hazard c	es: Daphnia magna (Cr C50 = 9,310 mg/l/growth Bioaccumulative PBT and vPvB a	rustacia), EC50 = 10 n rate [Ethanol, abso p potential: No dat ssessment: No dat	0,800 mg/l/24 hou blute] a available ita available	•	8% pure]	
Section 13	Disposal Considerations						
	delines are intended for the different. Dispose of in acc Transport Information (U	ordance with all local	, state and federa				
	•		•				
	ited quantity equal to or les		Reportable	Quantity: 5,00 Guide # 127	00 lbs (2270 k	g) Marine	pollutant: No
Section 15	Regulatory Information						
	d to be listed if the CAS number for		•				
Compone Ethanol Methanol Isopropanol Phenolphthalein	ent	TSCA C Listed Listed Listed Listed	ERLCA (RQ) Not listed 5,000 lbs. Not listed Not listed	RCRA code D001 U154 Not listed Not listed	DSL Listed Listed Listed Listed	Not listed Re	CA Prop 65 WARNING -Cancer and productive Harm ww.P65Warnings.ca.gov.
Section 16	Other Information						

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

221 Rochester Street

(585) 226-6177

Avon, NY 14414-9409

Section 1

Chemical Product and Company Identification

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Page E1 of E2

CHEMTREC 24 Hour Emergency USA

Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

UNIVERSAL PH INDICATOR Product Synonyms Universal Indicator, Synthetic Marguis Reagent Section 2 **Hazards Identification** Signal word: DANGER Precautionary statement: Pictograms: GHS02 / GHS07 / GHS08 / GHS06 P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Target organs: Eyes, Central nervous system, Liver, Kidneys. 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. GHS Classification: P271: Use only outdoors or in a well-ventilated area. Flammable liquid (Category 2) P280: Wear protective gloves/protective clothing/eye protection/face protection. Acute toxicity, inhalation (Category 3) P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Skin irritation (Category 2) Remove contact lenses, if present and easy to do. Continue rinsing. Eve irritation (Category 2B) P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated STOT-SE (Category 2) clothing. Rinse skin with water/shower. STOT-SE (Category 3) P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing GHS Label information: Hazard statement: P312: Call a POISON CENTER or doctor if you feel unwell. H225: Highly flammable liquid and vapour. P332+P313: If skin irritation occurs: Get medical attention. H315: Causes skin irritation. P337+P313: If eye irritation persists: Get medical attention. H319: Causes serious eye irritation. P362+P364: Take off contaminated clothing and wash it before reuse. H331: Toxic if inhaled. P403+P233: Store in a well-ventilated place. Keep container tightly closed. H336: May cause drowsiness or dizziness. P501: Dispose of contents/container to a licensed chemical disposal agency in H371: May cause damage to organs. accordance with local/regional/national regulations.

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	
Ethyl alcohol		64-17-5	64.50 - 65.11%	200-578-6	
Water		7732-18-5	23.96%	231-791-2	
Isopropyl alcohol		67-63-0	6.83%	200-661-7	
Methanol		67-56-1	3.03 - 3.26%	200-659-6	
Methyl isobutyl keto	ne	108-10-1	0.68 - 0.76%	203-550-1	
Bromothymol blue		76-59-5	0.06%	200-971-2	
Phenolphthalein		77-09-8	0.06%	201-004-7	
Methyl red		845-10-3	0.02%	212-682-9	
Thymol blue		62625-21-2	0.005%	263-650-6	

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. 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.

Accidental Release Measures Section 6

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

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 Protection					
Exposure Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits:	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/MSHAapproved respirator.

Appearance:Clear, green liquicOdor:Mild characteristic odor.Odor threshold:Data not available.Melting / Freezing point:.114'Boiling point:.75-80°C (173-17Flash point:Approximately 21°Section 10StabilityChemical stability:StableConditions to avoid:ExcessiveIncompatible materials:StrongHazardous decomposition proSection 11ToxicoloAcute toxicity:Oral-rat LD50:Skin corrosion/irritation:SkinSerious eye damage/irritation:Respiratory or skin sensitizatiGerm cell mutagenicity:DataCarcinogenity:Data not availaNTP:No component of this prodIARC classified:Group 3: Not ckOSHA:No component of this prodCA prop 65:WARNING!Sign and symptoms of exposiSigns and symptoms of exposiIgestion:Ingestion causes dizzSkin:Concart with skin causes iEyes:Contact with skin causes iEyes: <th></th> <th>ution rate (Dutul contate - 4</th> <th></th> <th></th> <th></th> <th></th>		ution rate (Dutul contate - 4				
Appearance: Clear, green liquic Odor: Mild characteristic odor. Odor threshold: Data not available. Melting / Freezing point: -114' Boiling point: 75-80°C (173-17 Flash point: Approximately 21° Section 10 Stability Chemical stability: Stable Conditions to avoid: Excessive Incompatible materials: Strong Hazardous decomposition pro Section 11 Toxicolo Acute toxicity: Oral-rat LD50: Skin corrosion/irritation: Skin Serious eye damage/irritation: Respiratory or skin sensitizati Germ cell mutagenicity: Data NTP: No component of this prod IARC classified: Group 3: Not ck OSHA: No component of this prod AProp 65: A WARNING! This and birth defects or other reprod Reproductive toxicity: Data not availa STOT-repeated exposure: The st STOT-repeated exposure: The st STOT-repeated exposure: The st STOT-repeated exposure: The st Stin: Contact with skin causes i Eyes: Contact with skin causes i Eyes: Contact with eyes may ca Signs and symptoms of expos	d. Evapoi	unting water (Duty) apostate = 4				
Chemical stability: Stable Conditions to avoid: Excessive Incompatible materials: Strong Hazardous decomposition pro Section 11 Toxicolo Acute toxicity: Oral-rat LD50: Skin corrosion/irritation: Skin Serious eye damage/irritation: Respiratory or skin sensitizati Germ cell mutagenicity: Data Carcinogenity: Data not availa NTP: No component of this prod IARC classified: Group 3: Not ck OSHA: No component of this prod IARC classified: Group 3: Not ck OSHA: No component of this prod Aspiration hazard: Data not availa Reproductive toxicity: Data not STOT-single exposure: The st STOT-repeated exposure: Data Aspiration hazard: Data not av Potential health effects: Inhalation: Inhalation may cause lingestion: Ingestion causes dizz Skin: Contact with skin causes i Eyes: Contact with eyes may ca Signs and symptoms of expos Signs and symptoms of expos additional information: RTEC Section 12 Ecologic Toxicity to fish: Oncorhynchus Toxicity to algae: Chlorella pyre Persistence and degradability Mobility in soil: No data availal Other adverse effects: An envi Section 13 Disposa These disposal guidelines are regulations may be different. Section 14 Transpo UN/NA number: UN1170 Hazard class: 3 Exceptions: Limited quant Section 15 Regulato	able. Explos Vapor p °C (-173°F)* Vapor o 4°F)* Relativ	ration rate (Butyl acetate = 1 lability (solid/gas): Data not sion limits: Lower / Upper: - pressure (mm Hg): 44.6 @ 2 density (Air = 1): 1.59* re density (Specific gravity): lity(ies): Soluble in water.	available. 4.0%(V) / 20.0%(V)* 20°C (68°F)*	Auto-ignitio Decomposit Viscosity: [Molecular fo		: 400°C (752°F)* re: Data not available. ile. e
Conditions to avoid: Excessive Incompatible materials: Strong Hazardous decomposition pro- Section 11 Toxicolo Acute toxicity: Oral-rat LD50: Skin corrosion/irritation: Skin Serious eye damage/irritation: Respiratory or skin sensitizati Germ cell mutagenicity: Data Carcinogenity: Data not availa NTP: No component of this prod IARC classified: Group 3: Not cl OSHA: No component of this prod CA Prop 65: WARNING! This and birth defects or other reprod Reproductive toxicity: Data not STOT-single exposure: Data Aspiration hazard: Data not av STOT-repeated exposure: Dat Aspiration hazard: Data not av Stot-repeated exposure: Dat Aspiration hazard: Data not av Stot-repeated exposure: In est Stot-repeated exposure: Dat Aspiration hazard: Data not av Stot-repeated exposure: Dat Aspiration spector causes dizz Skin: Contact with skin causes i Eyes: Contact with skin causes i Eyes: Contact with skin causes i Eyes: Contact with eyes may ca Signs and symptoms of expos Additional information: RTEC Section 12 Ecologic Toxicity to fish: Oncorhynchus Toxicity to daphnia and other a Toxicity to algae: Chlorella pyre Persistence and degradability Mobility in soil: No data availat Other adverse effects: An envi Section 13 Disposa These disposal guidelines are regulations may be different. Section 14 Transpo UN/NA number: UN1170 Hazard Class: 3 Exceptions: Limited quant	& Reactivity					
Acute toxicity: Oral-rat LD50: Skin corrosion/irritation: Skin Serious eye damage/irritation: Respiratory or skin sensitizati Germ cell mutagenicity: Data Carcinogenity: Data not availa NTP: No component of this prod IARC classified: Group 3: Not cla OSHA: No component of this prod CA Prop 65: A WARNING! :This and birth defects or other reprod Reproductive toxicity: Data not STOT-single exposure: Data Aspiration hazard: Data not av Potential health effects: Inhalation: Inhalation may cause Signs and symptoms of expos Additional information: RTEC Section 12 Ecologic Toxicity to fish: Oncorhynchus Toxicity to daphnia and other at Toxicity to algae: Chlorella pyre Persistence and degradability: Mobility in soil: No data availal Other adverse effects: An envi Section 14 Transpo UN/NA number: UN1170 Hazard class: 3 Exceptions: Limited quant Section 15 Regulate	e temperatures, heat, sparks, g oxidizers, inorganic acids a	•				
Skin corrosion/irritation: Skin Serious eye damage/irritation: Respiratory or skin sensitizati Germ cell mutagenicity: Data Garcinogenity: Data not availa NTP: No component of this prod IARC classified: Group 3: Not cla OSHA: No component of this prod IARC classified: Group 3: Not cla OSHA: No component of this prod CA Prop 65: WARNING!: This and birth defects or other reprod Reproductive toxicity: StOT-single exposure: Data not av Aspiration hazard: Data not av Aspiration hazard: Data not av Inhealtion: Inhelation may cause Ingestion: Ingestion causes dizz Skin: Contact with skin causes i Eyes: Contact with eyes may ca Signs and symptoms of expose Additional information: Toxicity to fish: Oncorhynchus Toxicity to daphnia and other at Toxicity to algae: Chlorella pyre Persistence and degradability; Mobility in soil: No data availa Other adverse effects: <td>gical Information</td> <td></td> <td></td> <td></td> <td></td> <td></td>	gical Information					
Toxicity to fish: Oncorhynchus Toxicity to daphnia and other a Toxicity to algae: Chlorella pyre Persistence and degradability; Mobility in soil: No data availal Other adverse effects: An envi Section 13 Disposa These disposal guidelines are regulations may be different. Section 14 Transpo UN/NA number: UN1170 Hazard class: 3 Exceptions: Limited quant Section 15 Regulatory	not available ble luct present at levels greater i assifiable as to its carcinogen oduct present at levels greate s product can expose you to f luctive harm. ot available ubstance or mixture is classifi a not available e dizziness, drowsiness, naus ziness, drowsiness, naus ziness, drowsiness, naus ziness, drowsiness, naus ziness, drowsiness, maus suse blindness. sure: See Potential health ef	nicity to humans. [Isopropanol] er than or equal to 0.1% is iden Phenolphthalein, Methanol an ded as specific target organ too sea, vomiting, inability to conc d reaction, euphoria, nausea, ed contact.] ntified as a carcinoge d Methyl isobutyl keto xicant, single exposur centrate and irritation	n or potential ca one, which are k re, category 3 w of the throat.	arcinogen by OS known to the Sta	ate of California to cause cancer
Toxicity to daphnia and other a Toxicity to algae: Chlorella pyre Persistence and degradability: Mobility in soil: No data availal Other adverse effects: An enviSection 13Disposa These disposal guidelines are regulations may be different. Section 14TranspoUN/NA number:UN1170 Hazard class: 3 Exceptions: Limited quant Section 15Regulatory	al Information					
These disposal guidelines are regulations may be different.Section 14TranspoUN/NA number:UN1170Hazard class:3Exceptions:Limited quantSection 15Regulate	aquatic invertebrates: Daph enoidosa (Algae), EC50 = 9,3 No data available Bic ble PB ronmental hazard cannot be	nia magna (Crustacia), EC50 10 mg/l/growth rate [Ethanol, paccumulative potential: No T and vPvB assessment: N	= 10,800 mg/l/24 hou absolute] o data available lo data available	-	.8% pure]	
regulation's may be different. Section 14 Transpo UN/NA number: UN1170 Hazard class: 3 Exceptions: Limited quant Section 15 Regulate	I Considerations					
UN/NA number: UN1170 Hazard class: 3 Exceptions: Limited quant Section 15 Regulate	Dispose of in accordance	with all local, state and fee				
Hazard class: 3Exceptions: Limited quantSection 15Regulate	rt Information (US DOT /	CANADA TDG)				
Section 15 Regulate	Shipping name: Packing group: ity equal to or less than 1	II Reporta	able Quantity: 5,0 RG Guide # 127	00 lbs (2270	kg) M a	arine pollutant: No
	ory Information					
A chemical is considered to be listed	if the CAS number for the anhyd	rous form is on the Inventory list.				
Component	Т	SCA CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Ethanol Methanol Isopropanol	Li	isted Not listed isted 5,000 lbs. isted Not listed	D001 U154 Not listed	Listed Listed Listed	Not listed Not listed Not listed	▲ WARNING -Cancer and Reproductive Harm - www.P65Warnings.ca.gov.
Section 16 Other In						

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

Page E1 of E2

Chemical Product and Company Identification Section 1

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

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

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

Not for drug, food or household use.

Product	STARCH, 0.1% SOLUTION	
Synonyms	Starch, Aqueous Solution, Synthetic Simon's Reagent	
Section 2	Hazards Identification	
This substa to the Globa Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label Hazard stat	nce or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of I: Not classified ns: None known fication: Not classified information: ement(s): Not classified ury statement(s): Not classified	Supplemental information: Do not breathe mist/vapours/spray. 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) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / Information on Ingredients				
Chemical Name		CAS #	%	EINECS	
Water Starch, soluble Methylparaben		7732-18-5 9005-84-9 99-76-3	99.8% 0.1% 0.1%	231-791-2 232-686-4 202-785-7	
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.

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.	Starch (9005-25-8)	TWA: 10 mg/m ³ (A4)	TWA: 15 mg/m ³ (Total dust)	TWA: 10 mg/m ³ (Total dust)	

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.

0 0								
Section 9	Physical & Chemic		roto (Motor - 4); 4		Dortition		a not available	
• • • •	Data not available. able. nt: Approximately 0°C (32°F) (roximately 100°C (212°F) (v	Water) Relative dens	n rate (Water = 1): <1 y (solid/gas): Data no imits: Lower / Upper: sure (mm Hg): 14 (wat ity (Air = 1): 0.7 (water ity (Specific gravity): App ss): Complete in water.	Data not available er))	Auto-ignit Decompo Viscosity: Molecular	•	e: Data not availab ure: Data not avail ble. re	
Section 10	Stability & Reactiv	ity						
Chemical stability: Conditions to avoi	: Stable id: Excessive temperatu		dous polymerization:	Will not occur.				
incompatible mate	erials: No data available							
Hazardous decom	position products: Nor	ne.						
Section 11	Toxicological Infor	mation						
IARC: No compone OSHA: No compone Reproductive toxic	nt of this product present ent of this product present ent of this product present city: Data not available	t at levels greater than nt at levels greater than	or equal to 0.1% is iden	tified as probable, pos	sible or confi	rmed human care		
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Form 06/2015

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Section 1

Chemical Product and Company Identification

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

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

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

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

Product	POTASSIUM FERROCYANIDE, 0.1 MOLAR SOLUTION					
Synonyms	Potassium Ferrocyanide, Water Solution , Synthetic 6-Monoacetylmorp	hine Indicator				
Section 2	Hazards Identification					
Pictograms Target orga GHS Classi Skin irritatio Eye irritatior Aquatic toxi GHS Label H316: Caus H320: Caus	d: WARNING s: None required ans: None known ification: on (Category 3) n (Category 2B) (city, chronic (Category 3) information: Hazard statement(s): see se mild skin irritation. see eye irritation. ful to aquatic life with long lasting effects.	 Precautionary statement(s): P264: Wash hands thoroughly after handling. P273: Avoid release to the environment. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several 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. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. Supplementary information: EUH032: Contact with acids liberates very toxic gas. 				

Hazards not otherwise classified:

Physical hazards not otherwise classified (PHNOC) - Not Known

Health hazards not otherwise classified (HHNOC) - Contact with acids liberates very toxic gas.

Chemical NameCAS #%EINECWater7732-18-595.78%231-7Potassium ferrocyanide14459-95-14.22%None	
	i

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. Dangerous when heated to decomposition or on contact with acids or acid fume, emits highly toxic fumes of hydrocyanic gas which can form explosive mixtures with air.

Section 6 Accidental Release Measures

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

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

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. Protect from light, heat, acids and acid fumes.

Section 8	Exposure Controls / Personal Protection				
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Limits.	Potassium ferrocyanide	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.

	Physical & Chemical Pro	perties					
Odor: No odor. Odor threshold: pH: Data not avai Melting / Freezing po	int: Approximately 0°C (32°F) (water) proximately 100°C (212°F) (water)	Flammability (se Explosion limits Vapor pressure Vapor density (Relative density (S	e (Water = 1): <1 olid/gas): Data not ava s: Lower / Upper: Dat (mm Hg): 14 (water) Air = 1): 0.7 (water) Specific gravity): Approx Complete in water.	ta not available	Auto-ignit Decompos Viscosity: Molecular	•	e: Data not available ure: Data not available. ble. re
Section 10	Stability & Reactivity						
Incompatibilities	y: Stable oid: Protect from light, heat, acids with other materials: Strong ox nposition products: Oxides of r	s and acid fumes. idizers, acids and ac		ll not occur.			
Section 11	Toxicological Information	ı					
Respiratory or sk Germ cell mutage Carcinogenity: D NTP: No compone IARC: No compon OSHA: No compon	ent of this product present at level ent of this product present at leve nent of this product present at lev	able s greater than or eq ils greater than or eq	qual to 0.1% is identifie	ed as probable, pos	sible or confi	med human car	o ,
STOT-single expo STOT-repeated ex Aspiration hazard Potential health e Inhalation: Inhalat Ingestion: Ingestion Skin: Repeated on Eyes: May cause Signs and sympt tem irritation of the	tion may cause irritation of the eye on may cause irritation and nause r prolonged contact may cause de mild irritation. oms of exposure: Product is no e skin, eyes and mucous membra	ea. ermatitis. t decomposed to cy nes is possible. Exe	anide in the body. Rap ercise appropriate proc	bidly excreted in the			netabolic alteration. Slight sho
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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

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency USA

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Product	SYNTHETIC THC INDICATOR	
Synonyms	Synthetic THC Indicator 2	
Section 2	Hazards Identification	
Pictograms Target orga GHS Classi Eye irritatior GHS Label	t: WARNING : No symbol required ns: None known fication: n (Category 2B) information: Hazard statement: es eye irritation.	Precautionary statement: P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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 Ingredients				
Chemical Name		CAS #	%	EINECS	
Water Calcium chloride Calmagite		7732-18-5 10043-52-4 3147-14-6	99.9% 0.05% 0.05%	231-791-2 233-140-8 221-563-0	
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: 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 CAUSE IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 **Fire Fighting Measures**

Suitable Extinguishing Media: 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.

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

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

Section 8	Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Limits.	Particulates not otherwise classified	None established	TWA: 15 mg/m ³ total dust	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 & Chemical Prop	perties	
Appearance: Clear, colorless liquid. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Metting / Freezing point: Approximately 0°C (32°F) (water) Boiling point: Approximately 100°C (212°F) (water) Flash point: Data not available	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Approximately 1.0 (water) Solubility(ies): Complete in water.	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available. Viscosity: Data not available. Molecular formula: Mixture Molecular weight: Mixture
Section 10 Stability & Reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation.

Incompatible materials: Avoid contact with sulfuric acid. Flammable hydrogen may be generated from contact with metals such as zinc and sodium.

Hazardous decomposition products: None known.

Section 11 Toxicological Information

Acute toxicity: Oral-rat LD50: 2100 mg/kg ; Dermal-rabbit LD50: >5000 mg/kg [Calcium chloride]

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.

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: Dust may cause irritation to the upper respiratory tract (nose and throat).

Ingestion: Low toxicity if swallowed. However, large amounts may result in gastrointestinal irritation or ulceration.

Skin: Contact with skin may cause irritation and/or defatting on prolonged contact.

Eyes: Contact with eyes may cause severe irritation and/or corneal injury.

Signs and symptoms of exposure: See Potential health effects above.

Additional information: RTECS #: EV9810000 [Calcium chloride]

Section 12 Ecological Information

Toxicity to fish: Lepomis macrochirus (bluegill) LC50: 8,350-10,650 mg/L [Calcium chloride]

Toxicity to daphnia and other aquatic invertebrates: Daphnia magna (water flea), LC50: 759-3,005 mg/L [Calcium chloride]

Toxicity to algae: No data available

Mobility in soil: No data available

Persistence and degradability: No data available Bioaccumulative potential: 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 Information (US DOT / CANADA TDG)

UN/NA number: Not applicable Hazard class: Not applicable Exceptions: Not applicable	Shipping name: No Packing group: No 2016 ERG Guide #	ot applicable	Reportable Qua	antity: No	Ма	rine pollutant: No
Section 15 Regulatory Informa	tion					
A chemical is considered to be listed if the CAS num	ber for the anhydrous form i	s on the Inventory list.				
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Calcium chloride Calmagite	Listed Listed	Not listed Not listed	Not listed Not listed	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or
						reproductive toxicity.
Section 16 Other Information						
The information contained herein is furnished without	ut warranty of any kind. Emp	ployers should use this in	nformation only as a su	pplement to other	information gathe	red 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.

GENERAL STORAGE CODE GREEN

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Section 1

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency USA

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Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product BUFFE	R SOLUTION, PH10 (BLUE COLOR CODED)	
Synonyms , Synthe	etic THC Indicator 1	
Section 2	Hazards Identification	
Signal word: WARNI Pictograms: None re Target organs: None GHS Classification: Skin irritation (Categor Eye irritation (Categor GHS Label information H316: Causes mild skit H320: Causes eye irrit	equired e known ry 3) y 2B) on: Hazard statement(s): in irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several 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 / Infor	mation on Ingredients			
Chemical Name	CAS #	%	EINECS	
Water	7732-18-5	99.08%	231-791-2	
Potassium chloride	7447-40-7	0.40%	231-211-8	
Boric acid	10043-35-3	0.33%	233-139-2	
Sodium hydroxide	1310-73-2	0.19%	215-185-5	
FD&C blue #1 (C.I. No. 42090)	3844-45-9	trace	223-339-8	

Section 4 First Aid Measures

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

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

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

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.

Page E2 of E2 Section 7 Handling & Storage

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

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

Section 8	Exposure Controls / Personal Pro	tection		
Exposure Limits:	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.

Appearance: Clear, blue liquid. Odor: No odor. Odor threshold: Data not available. pH: 10.0 Melting / Freezing point: Approximately 0°C (3:2) Flash point: Data not available Section 10 Stability & Reat Chemical stability: Stable Conditions to avoid: Excessive tempel Incompatibilities with other materials Hazardous decomposition products: Section 11 Toxicological I Acute toxicity: Data not available Skin corrosion/irritation: Data not available Skin corrosion/irritation: Data not available NTP: No component of this product pre IAC: No component of this product pre IARC: No component of this product pre IAR: Nay cause mild irritation. Signs and symptoms of exposure: To ata not available Potential health effects: Inhalation: May be harmful if inhaled.	P(water) F) (water) F)	ir will change the buffer's a	t available. Data not available er) proximately 1.0 (water) Will not occur.	Decomposition Viscosity: Dat Molecular form	temperature: n temperature ta not available nula: Mixture	Data not available e: Data not available.
Odor: No odor. Odor threshold: Data not available. pH: 10.0 Melting / Freezing point: Approximately 100°C (212) Flash point: Data not available Section 10 Stability & Real Chemical stability: Stable Conditions to avoid: Excessive temper Incompatibilities with other materials Hazardous decomposition products: Section 11 Toxicological I Acute toxicity: Data not available Skin corrosion/irritation: Data not available Skin corrosion/irritation: Data not available Skin corrosion/irritation: Data not available Ntr: No component of this product pre IARC: No component of this product pre IARC: No component of this product pre IARC: No component of this product pre OSHA: No component of this product pre IARC: No component of this product pre IARC: No component of this product pre OSHA: No component of this product pre IARC: No componen	P(water) F) (water) F)	bility (solid/gas): Data no on limits: Lower / Upper: ressure (mm Hg): 14 (wat ensity (Air = 1): 0.7 (water lensity (Specific gravity): Ap y(ies): Complete in water. azardous polymerization: raporation. ir will change the buffer's a	t available. Data not available er) proximately 1.0 (water) Will not occur.	Auto-ignition t Decomposition Viscosity: Dat Molecular form	temperature: n temperature ta not available nula: Mixture	Data not available e: Data not available.
Chemical stability: Stable Conditions to avoid: Excessive temper Incompatibilities with other materials Hazardous decomposition products: Section 11 Toxicological Id Acute toxicity: Data not available Skin corrosion/irritation: Data not available Skin corrosion/irritation: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Serious eye damage/irritation: Data not available Ntrp: No component of this product pre IARC: No component of this product pre IARC: No component of this product pre OSHA: No component of this product pre Station hazard: Data not available Potential health effects: Inhalation: May be harmful if inhaled. Ingestion: May be harmful if swallowed Skin: May cause mild irritation. Eyes: May cause mild irritation.	Ha eratures which cause ev : Acids, alkalies, and ai Boron oxide and chlorin nformation	aporation. ir will change the buffer's a				
Conditions to avoid: Excessive tempolIncompatibilities with other materialsHazardous decomposition products:Section 11Toxicological IAcute toxicity: Data not availableSkin corrosion/irritation: Data not availableSkin corrosion/irritation: Data not availableSkin corrosion/irritation: Data not availableRespiratory or skin sensitization: DataGerm cell mutagenicity: Data not availableNTP: No component of this product preARC: No component of this product preArcing exposure: Data not availableStotr-single exposure: Data not availablePotential health effects:Inhalation: May be harmful if inhaled.Ingestion: May be harmful if swallowedSkin: May cause mild irritation.Signs and symptoms of exposure: TTot availableToxicity to fish: No data availableToxicity	eratures which cause ev : Acids, alkalies, and ai Boron oxide and chlorin nformation	aporation. ir will change the buffer's a				
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Section 13Disposal ConsThese disposal guidelines are inten- regulations may be different. DispoSection 14Transport InfoUN/NA number:Not applicableHazard class:Not applicableExceptions:Not applicable	invertebrates: No data ta available Bioad PBT a	ccumulative potential: N and vPvB assessment: N	lo data available	disposal.		
These disposal guidelines are inten- regulations may be different. DispoSection 14Transport InfoUN/NA number:Not applicableHazard class:Not applicableExceptions:Not applicable	iderations					
Hazard class: Not applicable Exceptions: Not applicable	ded for the disposal of	vith all local, state and fe				
	Packing group	 ne: Not Regulated p: Not applicable ide # Not applicable 	Reportable Quar	ntity: No	Mari	ine pollutant: No
Section 15 Regulatory Inf						
A chemical is considered to be listed if the CA						
Component	TSC	CA CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Potassium chloride Section 16 Other Informa		ed Not listed	Not listed	Listed		This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

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

Section 1

Chemical Product and Company Identification

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

Not for drug, food or household use.

Innovating Science[®] by Aldon Corporation "cutting edge science for the classroom"

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

Product	FERRIC CHLORIDE, 1 MOLAR SOLUTION	
Synonyms	Iron(III) Chloride, Water Solution	
Section 2	Hazards Identification	
Pictograms Target organ GHS Classif Corrosive to Acute toxicity Skin irritation Eye damage GHS Label i H290: May b H302: Harmf H315: Cause	 i: DANGER : GHS05 / GHS07 ns: Eyes, Skin, Respiratory system, Liver, Gastrointestinal tract io io i	 Precautionary statement: P234: Keep only in original container. P406: Store in corrosive resistant container with a resistant inner liner. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P280: Wear protective gloves/protective clothing/eye protection/face protection. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER of doctor if you feel unwell. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minuter. Remove contact lenses, if present and easy to do. Continue rinsing. P310: Immediately call a POISON CENTER or doctor. P362+P364: Take off contaminated clothing and wash it before reuse. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

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

Section 3	Composition / Information o	on Ingredients			
Chemical Name		CAS #	%	EINECS	
Water Ferric chloride, hex	ahydrate	7732-18-5 10025-77-1	72.97% 27.03%	231-791-2 231-729-4 [anhydrous]	
Section 4	First Aid Measures				

INGESTION: HARMFUL IF SWALLOWED. MAY CAUSE LIVER OR KIDNEYS DAMAGE. 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. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE DAMAGE. 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. 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: 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: 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

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.

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 Pro	tection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Iron salts, soluble, as Fe	TWA: 1 mg/m ³	No listing	TWA: 1 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/MSHA-

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Section 9	Physical & Chemical Prope	rties					
	ta not available. Ie. Approximately 0°C (32°F) (water) kimately 100°C (212°F) (water)	Flammability Explosion lim Vapor pressur Vapor density Relative density	rate (Water = 1): <1 (solid/gas): Data not av itis: Lower / Upper: Data re (mm Hg): 14 (water) / (Air = 1): 0.7 (water) / (Specific gravity): Appro): Complete in water.	ata not available	Auto-ignit Decompo Viscosity: Molecular		e: Data not available ure: Data not available. ble. re
Section 10	Stability & Reactivity						
Incompatible materia	Stable : Excessive temperatures which als: Water, oxidizing agents, me osition products: Hydrogen gas	cause evapora tals, strong bas	ses, reducing agents, alc				
Section 11	Toxicological Information						
Carcinogenity: Data NTP: No component IARC: No component OSHA: No component Reproductive toxicit	of this product present at levels g t of this product present at levels nt of this product present at levels	, greater than or	equal to 0.1% is identified	ed as probable, pos	sible or confi	rmed human care	• •
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dent 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