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

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

Section 8	Exposure controls / personal protection						
Exposure Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	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.

Section 9							
	Physical and chemical pr	operties					
	ata not available. Approximately 0°C (32°F) (water) ximately 100°C (212°F) (water)	Flammability Explosion lim Vapor pressur Vapor density Relative density	ate (Water = 1): <1 (solid/gas): Data not a its: Lower / Upper: D re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appro: : Complete in water.	ata not available )	Auto-igniti Decompos Viscosity: Molecular		: Data not available Ire: Data not available. ble. re
Section 10	Stability and reactivity						
Incompatibilities w	Stable d: Excessive temperatures which ith other materials: Acids, alka position products: Thermal de	ch cause evapora alies, and air will	change the buffer's abil				
Section 11	Toxicological information						
Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dat NTP: No component JARC: No component OSHA: No compone Ca Prop 65: This pro Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: May be h Ingestion: May be h Skin: May cause mi Eyes: May cause mi Eyes: May cause m Signs and symptom not available. Exerce Additional informat Section 12 Toxicity to fish: No Toxicity to daphnia Toxicity to algae: N	ation: Data not available evirritation: Data not available sensitization: Data not available is ensitization: Data not available a not available of this product present at levels to f this product present at level duct does not contain any chen ity: Data not available ure: Data not available osure: Data not available Data not available ects: harmful if inhaled. armful if swallowed. Id irritation. ins of exposure: To the best of ise appropriate procedures to m tion: RTECS #: Data not available Ecological information data available and other aquatic invertebrat	ble s greater than or of ls greater than or els greater than o nicals known to th our knowledge th inimize potential able es: No data avail	equal to 0.1% is identif r equal to 0.1% is identi ne State of California to ne chemical, physical at hazards.	fied as probable, pose iffied as a carcinogen cause cancer or repr nd toxicological prope	sible or confir or potential c roductive toxic	med human carr arcinogen by OS sity.	SHA.
Mobility in soil: No		PBT and v	PvB assessment: No	data available	disposal.		
Section 13	Disposal considerations						
regulations may be	idelines are intended for the different. Dispose of in acc <b>Transport information</b>						
Section 14							
UN/NA number: Hazard class: No Exceptions: Not	ot applicable Pack	ping name: N king group: N ERG Guide #	0	Reportable Quar	ntity: No	Ma	arine pollutant: No
UN/NA number: Hazard class: Not Exceptions: Not Section 15	t applicable Pack applicable 2020 Regulatory information	king group: N ERG Guide #	ot applicable Not applicable	Reportable Quar	ntity: No	Ma	arine pollutant: No
UN/NA number: Hazard class: Not Exceptions: Not Section 15	t applicable Pack applicable 2020 Regulatory information d to be listed if the CAS number for	king group: N ERG Guide #	ot applicable Not applicable	Reportable Quar	ntity: No DSL	Ma	arine pollutant: No CA Prop 65

Section 1

# Identification

# SAFETY DATA SHEET

# **GENERAL STORAGE CODE GREEN**

Page E1 of E2

CHEMTREC 24 Hour E nergency 24-9300 al use only. ehold use.

	IOVATING SCIENCE atting edge science for the classroom"	by Aldon 221 Rochester Street Avon, NY 14414-9409 (585) 226-6177	CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.
Product	BUFFER SOLUTION PH7		
Synonyms	Buffer, Aqueous Solution		
Section 2	Hazards identification		
Pictograms Target orga GHS Classi Skin irritatio Eye irritatior GHS Label H316: Caus	d: WARNING :: None required ins: None known ification: n (Category 3) n (Category 2B) information: Hazard statement(s): es mild skin irritation. es eye irritation.	P305+P351+P338: IF Remove contact lense P332+P313: If skin irri	nent(s): proughly after handling. IN EYES: Rinse cautiously with water for 15 minutes. is, if present and easy to do. Continue rinsing. tation occurs: Get medical attention. tation 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	3 Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Water Potassium phospha Sodium hydroxide		7732-18-5 7778-77-0 1310-73-2	99.15% 0.72% 0.13%	231-791-2 231-913-4 215-185-5		
Section 4	First aid measures					

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

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

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

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

#### Section 5 Fire fighting measures

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

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

#### Section 6 Accidental release measures

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

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

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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

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

Section 8	Exposure controls / personal protection						
Exposure Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	Potassium 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

Section 9 Appearance: Clear, Odor: No odor.							
	Physical and chemical pro	operties					
Odor threshold: Da pH: 7.0 Melting / Freezing point:	ta not available. Approximately 0°C (32°F) (water) imately 100°C (212°F) (water)	Flammability ( Explosion lim Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not a its: Lower / Upper: D re (mm Hg): 14 (water (Air = 1): 0.7 (water) (Specific gravity): Appro : Complete in water.	ata not available	Auto-igniti Decompos Viscosity: Molecular		: Data not available Ire: Data not available. ble. re
Section 10	Stability and reactivity						
Chemical stability: Conditions to avoid	Stable : Excessive temperatures whic		ous polymerization: V tion.	Vill not occur.			
Incompatibilities wi	th other materials: Acids, alka	alies, and air will o	change the buffer's abil	ty.			
Hazardous decomp	osition products: Thermal de	composition will y	vield phosphates and so	odium oxide and/or h	ydroxides.		
Section 11	Toxicological information						
Acute toxicity: Oral	-rat LD50: 3,200 mg/kg [Potas:						
Skin corrosion/irrita	tion: Data not available						
Serious eve damage	/irritation: Data not available						
	sensitization: Data not availa						
	city: Data not available						
Carcinogenity: Data							
• •	of this product present at levels	areater than or e	equal to 0.1% is identified	ed as a known or an	ticipated care	inogen by NTP	
	of this product present at level	-					cinogen by IARC
	t of this product present at leve						
	duct does not contain any chem	0		0		0,	
	ty: Data not available					onty.	
•	ire: Data not available						
• •							
	osure: Data not available						
Aspiration hazard:							
Potential health effe	cts.						
Inhalation: May be h							
	armful if inhaled.						
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# GENERAL STORAGE CODE GREEN

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Section 1

Identification

# INNOVATING SCIENCE®

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Synonyms Buffer, Aqueous Solution	
Section 2 Hazards identification	
Signal word: WARNING Pictograms: None required Farget organs: None known SHS Classification: Skin irritation (Category 3) Eye irritation (Category 2B) GHS Label information: Hazard statement(s): H316: Causes mild skin irritation. H320: Causes eye irritation.	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.

### Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS	
Water Potassium phosphat Sodium hydroxide	ie, monobasic	7732-18-5 7778-77-0 1310-73-2	99.09% 0.72% 0.19%	231-791-2 231-913-4 215-185-5	
Section 4	First aid moasuros				

### Section 4 First aid measures

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

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

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

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

### Section 5 Fire fighting measures

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

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

### Section 6 Accidental release measures

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

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

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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

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

Section 8	Exposure controls / personal protection						
Exposure Limite:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits:	Potassium 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.

Section 9	Physical and chemical pr	onerties					
Appearance: Cl Odor: No odor. Odor threshold: pH: 8.0 Melting / Freezing p	ear, colorless liquid. Data not available. oint: Approximately 0°C (32°F) (water) oproximately 100°C (212°F) (water) ta not available	Evaporation r Flammability Explosion lim Vapor pressu Vapor density Relative density	ate (Water = 1): <1 (solid/gas): Data not a its: Lower / Upper: D re (mm Hg): 14 (water r (Air = 1): 0.7 (water) r (Specific gravity): Appro : Complete in water.	ata not available	Auto-igniti Decompos Viscosity: Molecular		e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactivity						
Incompatibilitie	ity: Stable void: Excessive temperatures which s with other materials: Acids, alka composition products: Thermal de	ch cause evapora alies, and air will	change the buffer's abil	ity.	ydroxides.		
Section 11	Toxicological information						
Skin corrosion/ Serious eye dar Respiratory or s Germ cell muta Carcinogenity: NTP: No compor IARC: No compor OSHA: No comp Costa: No comp Stor: repeated Aspiration haza Potential health Inhalation: May Ingestion: May day Skin: May caus Signs and symp not available. Ex	be harmful if inhaled. be harmful if swallowed. e mild irritation. e mild irritation. otoms of exposure: To the best of kercise appropriate procedures to m mation: RTECS #: TC661500 [Pc	ble s greater than or ls greater than or els greater than o nicals known to th nicals known to th our knowledge t ninimize potential	equal to 0.1% is identifi equal to 0.1% is identifi or equal to 0.1% is identi he State of California to he chemical, physical an hazards.	ied as probable, pos ified as a carcinogen cause cancer or rep	sible or confir a or potential d roductive toxi	med human car carcinogen by O city.	SHA.
Section 12	Ecological information						
Toxicity to daph Toxicity to algae Persistence and Mobility in soil:	No data available nia and other aquatic invertebrat e: No data available I degradability: No data available No data available ffects: An environmental hazard c	Bioaccum PBT and v	ulative potential: No o /PvB assessment: No	data available	disposal.		
Section 13	Disposal considerations						
	guidelines are intended for the y be different. Dispose of in acc <b>Transport information</b>						
	Not applicable Pack	ping name: 1 king group: N ERG Guide #	lot applicable	Reportable Quar	ntity: No	M	arine pollutant: No
Exceptions:	••		Not applicable				
Exceptions: Section 15	Regulatory information						
Exceptions: Section 15 A chemical is consid	••			RCRA code	DSL	NDSL	CA Prop 65

# GENERAL STORAGE CODE GREEN

Page E1 of E2

Section 1

Identification

#### INNOVATING SCIENCE<sup>®</sup> by Aldon 221 Roof Avron N

"Cutting edge science for the classroom"

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

Product	BUFFER SOLUTION PH10	
Synonyms	Buffer, Aqueous Solution	
Section 2	Hazards identification	
Target organs GHS Classific Skin irritation ( Eye irritation ( GHS Label in H316: Causes	None required s: None known cation: (Category 3)	Precautionary statement(s): P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P332+P313: If skin irritation occurs: Get medical attention. P337+P313: If eye irritation persists: Get medical attention.

### Hazards not otherwise classified:

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

Section 3 Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS	
Water Potassium chloride Boric acid Sodium hydroxide		7732-18-5 7447-40-7 10043-35-3 1310-73-2	99.08% 0.40% 0.33% 0.19%	231-791-2 231-211-8 233-139-2 215-185-5	

### Section 4 First aid measures

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

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

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

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

Containment and Cleanup: Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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

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

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

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

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

Section 9	Physical and chemica	I properties					
Odor: No odor. Odor threshold: pH: 10.0 Melting / Freezing po	ar, colorless liquid. Data not available. int: Approximately 0°C (32°F) (water proximately 100°C (212°F) (water a not available	Flammability (s Explosion limit Vapor pressure Vapor density Relative density	te (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.	0ata not available `)	Auto-igniti Decompos Viscosity: Molecular		: Data not available I <b>re</b> : Data not available. ble. e
Section 10	Stability and reactivity						
Chemical stabilit Conditions to ave	y: Stable oid: Excessive temperatures v		us polymerization: \ ion.	Will not occur.			
Incompatibilities	with other materials: Acids,	alkalies, and air will c	hange the buffer's abi	lity.			
Hazardous decor	mposition products: Boron o	oxide and chlorine gas	i.				
Section 11 Acute toxicity: D	Toxicological informat	ion					
Serious eye dam Respiratory or sl Germ cell mutage Carcinogenity: E NTP: No compone IARC: No compone OSHA: No compo Ca Prop 65: This p Reproductive tox STOT-single expo	ent of this product present at le nent of this product present at le nent of this product present at product does not contain any c <b>cicity:</b> Data not available <b>osure:</b> Data not available <b>xposure:</b> Data not available	vailable evels greater than or e evels greater than or levels greater than or	equal to 0.1% is identi equal to 0.1% is ident	fied as probable, pos tified as a carcinogen	sible or confir or potential o	med human card arcinogen by OS	0 ,
Potential health e Inhalation: May be Ingestion: May be Skin: May cause Eyes: May cause Signs and sympt not available. Exe	e <b>ffects:</b> e harmful if inhaled. e harmful if swallowed. mild irritation.	to minimize potential h vailable		nd toxicological prop	erties have no	ot been thorough	ly investigated. Specific data
Potential health of Inhalation: May be Ingestion: May be Skin: May cause I Eyes: May cause Signs and sympt not available. Exe Additional inform Section 12 Toxicity to fish: I Toxicity to fish: I Toxicity to algae: Persistence and Mobility in soil: I	effects: e harmful if inhaled. e harmful if swallowed. mild irritation. mild irritation. soms of exposure: To the best ercise appropriate procedures f hation: RTECS #: Data not a Ecological information No data available ia and other aquatic invertel No data available degradability: No data availa	to minimize potential h vailable i prates: No data availa ble Bioaccumu PBT and vF	nazards. able Ilative potential: No PvB assessment: No	data available o data available		ot been thorough	ly investigated. Specific data
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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

# FLAMMABLE STORAGE CODE RED

Page E1 of E2

Section 1

Identification

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

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

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

Not for drug, food or household use.

Product	GUAIACOL		
Synonyms	2-Methoxyphenol		

## Section 2 Hazards identification

Signal word: WARNING Pictograms: GHS07 Target organs: Central nervous system



GHS Classification: Acute toxicity, oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2B)

### GHS Label information: Hazard statement:

H302: Harmful if swallowed.

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

Precautionary statement: 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 or doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of water and soap.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P332+P313: If skin irritation occurs: Get medical attention.
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 on ingredients						
Chemical Name		CAS #	%	EINECS			
Guaiacol		90-05-1	≥98%	201-964-7			
Cudiator			00,0	201 001 1			
• • •							
Section 4	First aid measures						

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

INHALATION: MAY BE HARMFUL IF INHALED. CAUSES RESPIRATORY 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: 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. Dusts may form flammable and explosive mixtures in air. Avoid dispersion of dust in air to reduce potential for rapid and/or explosive ignition.

### Section 6 Accidental release measures

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

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

Containment and Cleanup: Remove all sources of ignition. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts or fumes. 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. Darkens on exposure to light. Protect from air and light.

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

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

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

Section 9 Physical and chemical pr	operties	
Appearance: Solid $\leq 82.4^{\circ}$ F / Liquid $\geq 89.6^{\circ}$ F Odor: Phenol-like odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 28°C (82.4°F) Boiling point: 205°C (401°F) Flash point: 88.8°C (192°F) CC	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): 100 @ 20°C Vapor density (Air = 1): 4.27 Relative density (Specific gravity): 1.120 Solubility(ies): Slightly soluble in water.	$\begin{array}{l} \mbox{Partition coefficient: (n-octanol / water): Low Pow: 1.32} \\ \mbox{Auto-ignition temperature: } 398^\circ C (750^\circ F) \\ \mbox{Decomposition temperature: Data not available.} \\ \mbox{Viscosity: Data not available.} \\ \mbox{Molecular formula: } C_7 H_8 O_2 \\ \mbox{Molecular weight: } 124.14 \\ \end{array}$
Section 10 Stability and reactivity		

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Protect from air and light.

Incompatible materials: Strong oxidizers, bases, acid chloride and acid anhydrides.

Hazardous decomposition products: Oxides of carbon.

#### Section 11 **Toxicological information**

Acute toxicity: Oral-rat LD50: 520 mg/kg ; Inhalation-mouse LC50: 7570 mg/L/2H ; Dermal-rabbit LD50: 4600 mg/kg

Skin corrosion/irritation: Skin-rabbit - 500 mg/24H - severe

Serious eye damage/irritation: Eyes-rabbit - Unknown mg - severe

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

STOT-repeated exposure: Data not available Aspiration hazard: Data not available

Potential health effects:

Inhalation: May be harmful if inhaled

Ingestion: Harmful if swallowed.

Skin: Readily absorbed through skin. May be harmful if absorbed through skin.

Eyes: Contact causes severe 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

Additional information: RTECS #: SL7525000

#### Section 12 Ecological information

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: Daphnia EC50 = 63 mg/L/24H

Toxicity to algae: No data available

Bioaccumulative potential: No data available Persistence and degradability: No data available Mobility in soil: No data available

PBT and vPvB assessment: No data available

Not Dogulated

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 Inforn	nation
	Net explicable	

Hazard class: Not applicable Exceptions: Not applicable		Packing group: Not applicable 2020 ERG Guide # Not applicable		Reportable Quantity: No		Marine pollutant: No	
Section 15	Regulatory informa	tion					
A chemical is considered	d to be listed if the CAS nun	nber for the anhydrous form	is on the Inventory list.				
Compone	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Guaiacol		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						

# **GENERAL STORAGE CODE GREEN**

Page E1 of E2

Section 1

Identification

# INNOVATING SCIENCE

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**CHEMTREC 24 Hour Emergency** Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

Product	HYDROGEN PEROXIDE, 1%	
Synonyms	Hydrogen peroxide aqueous solution, stabilized, Dihydrogen Dioxide	
Section 2	Hazards identification	
Pictograms Target orga GHS Class Acute toxici Eye irritatio GHS Label H303: May	d: WARNING s: No symbol required ans: Respiratory and gastrointestinal systems, skin, eyes ification: ty (Category 5) n (Category 2B) information: Hazard statement: be harmful if swallowed. ses eye irritation.	Precautionary statement: P264: Wash hands thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P312: Call a POISON CENTER or doctor 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 Hydrogen peroxide Acetanilide		7732-18-5 7722-84-1 103-84-4	<99% 1% 0.05%	231-791-2 231-765-0 203-150-7		
Section 4	First aid measures					

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

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

EYE CONTACT: CAUSES IRRITATION TO EYES. 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: Water only! Apply vast amounts for cooling and dilution.

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This product is a strong oxidizer which may release oxygen and promote the combustion of flammable materials. Spontaneous combustion can occur if allowed to remain in contact with oxidizable materials. Drying of product on clothing or combustible material may cause fire.

#### Section 6 Accidental release measures

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

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

Containment and Cleanup: Remove all sources of ignition. Absorb with inert dry material, sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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

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

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Linits.	Hydrogen peroxide	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup> (A3)	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup>	TWA: 1 ppm ; 1.4 mg/m <sup>3</sup>			

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

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

approved respirator.							
Section 9	Physical and chemical	properties					
Appearance: Clear, colorless liquid.       Evaporation rate (Water = 1): <1						: Data not available re: Data not available. ole. e	
Section 10	Stability and reactivity						
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures, heat, sparks, open flame and other sources of ignition. Contact with combustible materials may result in spontaneous combustion. Incompatible materials: Acids, bases, metals, metal salts, reducing agents, organic materials, alkalies,dust and dirt contaminants, flammable substances, oxidizable materials. Hazardous decomposition products: Oxygen, which will promote the combustion of flammable material.							
Section 11	Toxicological informati	ion					
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC classified: Grou OSHA: No component Ca Prop 65: This pro Reproductive toxici STOT-single exposu STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: May be ha Skin: May cause irrit Eyes: May cause irrit	Acute toxicity: Oral-rat LD50 <sup>°</sup> 800 mg/kg [50% hydrogen peroxide] Skin corrosion/irritation: Data not available. Serious eye damage/irritation: Data not available. Respiratory or skin sensitization: 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 classified: Group 3: Not classifiable as to its carcinogenicity to humans. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. Reproductive toxicity: Data not available. STOT-single exposure: Data not available. STOT-repeated exposure: Data not available. Stot: May be harmful if inhaled. Ingestion: May be harmful if swallowed. Skin: May cause irritation. Eyes: 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						
Section 12	Ecological information						
Toxicity to daphnia Toxicity to algae: Ch Persistence and deg Mobility in soil: No	nbusia affinis (fish, fresh wa and other aquatic inverteb Ilorella vulgaris (Algae), EC gradability: No data availat data available ts: An environmental hazar	orates: Daphnia mag 50 = 2.5 mg/l/growth ble Bioaccumu PBT and vi	na (Crustacia), EC50 rate [Hydrogen peroxi <b>Ilative potential:</b> No <b>PvB assessment:</b> No	= 7.7 mg/l/24 hours [H ide] data available o data available		oxide]	
Section 13	Disposal consideration	ns					
	delines are intended for the different. Dispose of in a <b>Transport information</b>	accordance with all					ontainer. State and/or local mical disposal agency.
UN/NA number:	Not applicable Sh	nipping name: N	lot Regulated				
Hazard class: No Exceptions: Not	t applicable Pa	acking group: N 20 ERG Guide #	ot applicable	Reportable Qua	ntity: No	Ма	rine pollutant: No
Section 15	Regulatory information						
	to be listed if the CAS number		is on the Inventory list.				
Compone		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Hydrogen peroxide		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						