GENERAL STORAGE CODE GREEN

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Section 1	
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Identification

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

"Cutting edge science for the classroom"

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

Product	L+ASCORBIC ACID	
Synonyms	Vitamin C	
Section 2	Hazards identification	
	nce or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.
Pictograms	I: None required : No symbol required ns: None known	
GHS Label i	fication: None required information: Hazard statement: None required ary statement: None required	

Hazards not otherwise classified:

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

Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Ascorbic acid		50-81-7	100%	200-066-2	
Section 4	First aid measures	1	1		

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

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

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

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light, air and moisture.

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

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

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

approved respirator.							
Section 9	Physical and chemical pro	perties					
Odor: Nearly odorie Odor threshold: Da pH: Data not availab	ess. ata not available. ble. point: 190-192°C (374-377°F) pomposes	Flammability Explosion lim Vapor pressu Vapor density Relative dens	ate (= 1): Data not a (solid/gas): Data not its: Lower / Upper: 1 re (mm Hg): Negligibl / (Air = 1): Data not av ity (Specific gravity):): 30% by weight at 20	available. Non flammable e railable 1.65	Auto-igniti Decompos Viscosity: Molecular		: 660°C (1220°F) re: Data not available. le.
Section 10	Stability and reactivity						
Incompatible mate	Stable d: Excessive temperatures, moist rials: Alkalies, iron, copper, water position products: Oxides of car	ure, air and lig , oxidizing age		Will not occur.			
Section 11	Toxicological information						
Serious eye damag Respiratory or skin Germ cell mutager Carcinogenity: Da NTP: No componen IARC: No componen OSHA: No compone Ca Prop 65: This pro Reproductive toxic STOT-single expos STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Inhalatic Ingestion: May cause m Eyes: May cause m Signs and symptor	t of this product present at levels on t of this product present at levels ent of this product present at levels oduct does not contain any chemic sity: Data not available sure: Data not available Dosure: Data not available Data not available	greater than or greater than or s greater than o cals known to t vat.	r equal to 0.1% is iden or equal to 0.1% is iden he State of California to	ified as probable, po tified as a carcinoge	ssible or confir n or potential o	med human card carcinogen by OS	
Section 12	Ecological information						
Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13	and other aquatic invertebrates to data available gradability: No data available o data available cts: An environmental hazard car Disposal considerations	Bioaccum PBT and wanted be excluded	nulative potential: No vPvB assessment: N ed in the event of unpro	o data available ifessional handling o			
regulations may be	idelines are intended for the di e different. Dispose of in accor						
Section 14	Transport information	ing name	Not Populated				
UN/NA number: Hazard class: N Exceptions: No	ot applicable Packi	ng group: N	Not Regulated Not applicable # Not applicable	Reportable Qua	antity: No	Ма	arine pollutant: No
Section 15	Regulatory information						
	ed to be listed if the CAS number for th	-			Dei	NDO	CA Dron 6E
Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL Not listed	CA Prop 65 This product does not contain
Ascorbic acid		Listed	Not listed	Not listed	Listed	Not listed	any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16	Other information						

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

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Identification

[®] by Aldon INNOVATING SCIENCE

"Cutting edge science for the classroom"

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

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

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

Hazards not otherwise classified:

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

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

Section 4 First aid measures

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

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

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

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

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

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

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

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

Section 9 Physical and chemical p	roperties				
 Appearance: Solid, white powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available 	Evaporation rate (= 1): Data Flammability (solid/gas): Dat Explosion limits: Lower / Upp Vapor pressure (mm Hg): Da Vapor density (Air = 1): Data Relative density (Specific gra Solubility(ies): Approximately	a not available. per: Data not available a not available not available vity): Data not available	Auto-ignition Decompositi Viscosity: D Molecular for Molecular we		: Data not available Ire: Data not available ble. re
Section 10 Stability and reactivity					
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,				
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.			
Hazardous decomposition products: Gaseous of	arbon dioxide.				
Section 11 Toxicological information	n				
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0
Section 12 Ecological information					
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]	
Section 13 Disposal considerations					
These disposal guidelines are intended for the					
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a		
•	pping name: Not Regulated				
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No
	0 ERG Guide # Not applicable	•			
Section 15 Regulatory information					
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.			
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65
Sodium bicarbonate	Listed Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16 Other information					
The information contained herein is furnished without warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	ered by them and must make indepen-

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

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Roc Avon, W

"Cutting edge science for the classroom"

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

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

Hazards not otherwise classified:

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

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

Section 4 First aid measures

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

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

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

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

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

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

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

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

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

Section 9 Physical and chemical p	roperties				
 Appearance: Solid, white powder. Odor: No odor. Odor threshold: Data not available. pH: Data not available Melting / Freezing point: Data not available Boiling point: Data not available Flash point: Data not available 	Evaporation rate (= 1): Data Flammability (solid/gas): Dat Explosion limits: Lower / Upp Vapor pressure (mm Hg): Da Vapor density (Air = 1): Data Relative density (Specific gra Solubility(ies): Approximately	a not available. per: Data not available a not available not available vity): Data not available	Auto-ignition Decompositi Viscosity: D Molecular for Molecular we		: Data not available Ire: Data not available ble. re
Section 10 Stability and reactivity					
Chemical stability: Stable Conditions to avoid: High temperature causes de	Hazardous polymerizate ecomposition to sodium carbonate,				
Incompatible materials: Reacts with acids to yield	d acid salts, water and carbon diox	ide.			
Hazardous decomposition products: Gaseous of	arbon dioxide.				
Section 11 Toxicological information	n				
Acute toxicity: Oral-rat LD50: 4220-4400 mg/kg [Skin corrosion/irritation: Skin-rabbit - not irritatin Serious eye damage/irritation: Eye-rabbit - not ir Respiratory or skin sensitization: Non sensitizin Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at leve IARC: No component of this product present at leve OSHA: No component of this product present at leve Ca Prop 65: This product does not contain any che Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Excessive dust may irritate respiratory f Ingestion: Ingestion may cause gastrointestinal dis Skin: No hazard known. Eyes: Contact with eyes may cause very slight irritt Signs and symptoms of exposure: See Potentia Additional information: RTECS #: VZ0950000 [ng [Sodium bicarbonate] rritating [Sodium bicarbonate] ig [Sodium bicarbonate] ig [Sodium bicarbonate] Is greater than or equal to 0.1% is els greater than or equal to 0.1% is vels greater than or equal to 0.1% i rmicals known to the State of Califor tract. sturbance if ingested. ration. al health effects above.	identified as probable, po s identified as a carcinoge	essible or confirm	ed human car rcinogen by O	0
Section 12 Ecological information					
Toxicity to fish: Gambusia affinis (fish, freshwater Toxicity to daphnia and other aquatic invertebra Toxicity to algae: Nitcheria linearis (Algae) LC50: 0 Persistence and degradability: No data available Mobility in soil: No data available Other adverse effects: An environmental hazard of	ites: Daphnia magna (Crustacea) 650 mg/l/5 day [Sodium bicarbona] Bioaccumulative potentia PBT and vPvB assessment cannot be excluded in the event of	EC50: 2350 mg/l/48 hours e] I: No data available nt: No data available	-	onate]	
Section 13 Disposal considerations					
These disposal guidelines are intended for the					
regulations may be different. Dispose of in act Section 14 Transport information	Sordanice with all local, state al		contract with a		
•	pping name: Not Regulated				
	king group: Not applicable	Reportable Qua	antity: No	M	arine pollutant: No
	0 ERG Guide # Not applicable	•			
Section 15 Regulatory information					
A chemical is considered to be listed if the CAS number fo	r the anhydrous form is on the Inventor	y list.			
Component	TSCA CERLCA (F	Q) RCRA code	DSL	NDSL	CA Prop 65
Sodium bicarbonate	Listed Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.
Section 16 Other information					
The information contained herein is furnished without warr	anty of any kind. Employers should us	e this information only as a su	upplement to other	information gath	ered by them and must make indepen-

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

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Avon, N

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product FOOD COLORING - SET OF 4	
Synonyms Vegetable Dye	
Section 2 Hazards identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: None required Pictograms: No symbol required Target organs: None known	Supplemental information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wea protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.
GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required	
<u>Hazards not otherwise classified:</u> 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 FD&C Blue #1 (C.I. No. 42090) FD&C Yellow #5 (C.I. No. 19140) FD&C Red #40 (C.I. No. 16035)	7732-18-5 3844-45-9 1934-21-0 25956-17-6	99.5% 0.5% 0.5% 0.5%	231-791-2 223-339-8 217-699-5 247-368-0	

Section 4 First aid measures

INGESTION: MAY BE HARMFUL BY 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: MAY CAUSE ALLERGIC REACTIONS. 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 Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	None established	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 respira						
Section 9	Physical and chemical p	roperties				
Ddor: No odor. Ddor threshold: DH: Data not ava Melting / Freezing p	point: Approximately 0°C (32°F) (water) pproximately 100°C (212°F) (water)	Evaporation rate (Water = 1): <1 Flammability (solid/gas): Data not a Explosion limits: Lower / Upper: D Vapor pressure (mm Hg): 14 (water Vapor density (Air = 1): 0.7 (water) Relative density (Specific gravity): Appro Solubility(ies): Complete in water.	ata not available)	Auto-ignitio Decomposi Viscosity: Molecular f	on temperatur	ire
Section 10	Stability and reactivity					
Chemical stabili	ity: Stable void: Excessive temperatures whi	Hazardous polymerization:	Will not occur.			
	aterials: Strong oxidizers, reducin					
•		arbon, nitrogen oxides, sulfur oxides.				
ection 11	Toxicological information	1				
Carcinogenity: NTP: No compor ARC classified: DSHA: No comp Ca Prop 65: This Reproductive to	Group 3: Not classifiable as to its c onent of this product present at lev	s greater than or equal to 0.1% is identif arcinogenicity to humans. els greater than or equal to 0.1% is ider nicals known to the State of California to	tified as a carcinogen	or potential ca	arcinogen by O	SHA.
STOT-repeated Aspiration haza Potential health nhalation: Not e ngestion: May b Skin: Contact ma Eyes: Contact ma Signs and symp not available. Ex	posure: Data not available exposure: Data not available rd: Data not available effects: expected to be a health hazard. be harmful by ingestion. ay cause irritation or allergic reaction may cause irritation.	f our knowledge the chemical, physical a ninimize potential hazards.	and toxicological prope	erties have not	been thorough	nly investigated. Specific dat
STOT-repeated Aspiration haza Potential health Inhalation: Not e Ingestion: May b Skin: Contact m Eyes: Contact m Signs and symp tot available. Ex Additional infor Section 12 Foxicity to fish:	posure: Data not available exposure: Data not available rd: Data not available effects: expected to be a health hazard. be harmful by ingestion. ay cause irritation or allergic reaction ay cause irritation. otoms of exposure: To the best of cercise appropriate procedures to not mation: RTECS #: Data not avail Ecological information No data available	f our knowledge the chemical, physical a ninimize potential hazards. lable	and toxicological prope	erties have not	been thorough	nly investigated. Specific dat
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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

GENERAL STORAGE CODE GREEN

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Section 1

Identification

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Product	GELATIN	
Synonyms	Protein	
Section 2	Hazards identification	
Globally Ha Signal word Pictograms Target orga	ance or mixture has not been classified as hazardous according to the armonized System (GHS) of Classification and Labeling of Chemicals. d: Not classified s: Not classified nns: None known ification: Not classified	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.
GHS Label	information: Hazard statement(s): Not classified	

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

 Gelatin
 9000-70-8
 100%
 232-554-6

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 fireexposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust dispersed in air becomes explosive when exposed to ignition sources. If spills become wet, surface will become slippery.

Section 6 Accidental release measures

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

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

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

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

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

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Gelatin	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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Physical and cher	nical properties					
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Section 10	Stability and react	tivity					
	•	Hazardous	s polymerization: Will	not occur.			
Hazardous decor	nposition products: Carbo	n oxides and nitrogen oxid	les.				
Section 11	Toxicological info	rmation					
Acute toxicity: D	· ·	Iniation					
Germ cell mutage Carcinogenity: D NTP: No compor IARC: No compor OSHA: No compo Ca Prop 65: This	ent of this product present nent of this product preser onent of this product prese product does not contain icity: Data not available	t at levels greater than or e It at levels greater than or Int at levels greater than or	equal to 0.1% is identi r equal to 0.1% is iden	ified as probable, po tified as a carcinoge	ssible or confi n or potential o	rmed human card carcinogen by OS	
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Section 1

Identification

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Product PAPAIN	
Synonyms Papayotin / Vegetable Pepsin	
Section 2 Hazards identification	
 Signal word: DANGER Pictograms: GHS07 / GHS08 Target organs: None known 	 Precautionary statement: P261: Avoid breathing dust. 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. P284: Wear respiratory protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P332+P313: If skin irritation occurs: Get medical attention. P362+P364: Take off contaminated clothing and wash it before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P305+P351+P338: IF IN EYES: Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. 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.

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		
Papain		9001-73-4	100%	232-627-2		
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 extinguishing agent suitable for type of surrounding 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: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

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

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

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

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

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

Section 9 Physical and chemical p	roperties		
Appearance: Solid. Off-white hygroscopic powder	Evaporation rate (= 1): Data not available	Partition coefficient: Data not available	
Odor: Faint odor	Flammability (solid/gas): Data not available	Auto-ignition temperature: Data not available	
Odor threshold: Data not available	Explosion limits: Lower / Upper: Data not available	Decomposition temperature: Data not available	
pH: Data not available	Vapor pressure (mm Hg): Data not available	Viscosity: Data not available	
Melting / Freezing point: Decomposes	Vapor density (Air = 1): Data not available	Molecular formula: Natural product	
Boiling point: Decomposes	Relative density (Specific gravity): Data not available	Molecular weight: Natural product	
Flash point: Data not available	Solubility(ies): Slightly soluble in water		
Section 10 Stability and reactivity			

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures and heat. Stable under recommended storage conditions.

Incompatibilities with other materials: Strong oxidizers.

Hazardous decomposition products: Carbon oxides, nitrogen oxides, sulfur oxides.

Section 11 Toxicological information

Acute toxicity: Data not available

Skin corrosion/irritation: Data not available

Serious eye damage/irritation: Data not available

Respiratory or skin sensitization: Data not available

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

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

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

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

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

Reproductive toxicity: Data not available

STOT-single exposure: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.

STOT-repeated exposure: Data not available

Aspiration hazard: Data not available

Potential health effects:

Inhalation: Causes respiratory tract irritation. May cause allergic respiratory reaction. May be harmful if inhaled.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Skin: Causes skin irritation. May be harmful if absorbed through skin.

Eyes: Causes eye irritation.

Signs and symptoms of exposure: Inhalation of this material can cause the respiratory irritation, allergic or asthmatic reaction. 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 #: RU4950000

Section 12 Ecological information

Toxicity to fish: No data available

Mobility in soil: No data available

ERG: Emergency Response Guidebook

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

Persistence and degradability: No data available Bioaccumulative potential: No data available

PBT and vPvB assessment: No data available

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.

0000001114	manoport informat	ion							
UN/NA number: M Hazard class: Not Exceptions: Not a	applicable	Shipping name: N Packing group: No 2020 ERG Guide #	ot applicable	Reportable Quantity: No			Marine pollutant: No		
Section 15	Regulatory informa	tion							
A chemical is considered	to be listed if the CAS nun	ber for the anhydrous form	is on the Inventory list.						
Componer	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65		
Papain		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								
dent determinations of su	uitability and completeness	of information from all source	ces to assure proper use	of these materials and	the safety and h	ealth of employees.	ed by them and must make indepen- NTP: National Toxicology Program, sure, RE: Repeated Exposure,		

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Avon, N

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product SODIUM BICARBONATE, ANHYDROUS							
nonyms Baking Soda / Sodium Hydrogen Carbonate / Carbonic Acid Sodium (1:1)							
Section 2 Hazards identification							
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified	Precautionary statement(s): Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.						

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3	Composition / information on ingredients						
Chemical Name		CAS #	%	EINECS			
Sodium bicarbonate		144-55-8	100%	205-633-8			
Section 4	First aid measures	1	1				

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

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

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

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

Section 5 Fire fighting measures

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

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. This material is commonly used to extinguish fires.

Section 6 Accidental release measures

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

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

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

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

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

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

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

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

Section 9	Physical and chemical pr	operties	
Odor: No odor. Odor threshold: Data pH: 8.2 (1% solution)	int: Data not available	Evaporation rate (=1): Data not available Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Data not available Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 2.16 @ 20°C Solubility(ies): 8.6 g/100 ml water at 20°C	Partition coefficient: Data not available Auto-ignition temperature: Data not available Decomposition temperature: Data not available Viscosity: Data not available. Molecular formula: NaHCO ₃ Molecular weight: 84.01
Section 10	Stability and reactivity		
Observised stability (Dt-hl-	Hennedaus a charactication. M/ill a starson	

Chemical stability: Stable

ERG: Emergency Response Guidebook.

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Hazardous polymerization: Will not occur.

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

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

Hazardous decomposition products: Gaseous carbon dioxide.

Section 11 Toxicological information

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

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 ROM AVION

"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	STARCH, CORN	
Synonyms	Maize Starch	
Section 2	Hazards identification	
This subst to the Glob Chemicals Signal wor Pictogram Target orgi GHS Class GHS Label Hazard sta	ance or mixture has not been classified as hazardous according bally Harmonized System (GHS) of Classification and Labeling of	Supplemental information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

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

Section 3	Composition / information on ingredients					
Chemical Name		CAS #	%	EINECS		
Starch, corn		9005-25-8	100%	232-679-6		
Section 4	First aid measures	1	1	1		

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: 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. Dust dispersed in air becomes explosive when exposed to ignition sources.

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. 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)		
Exposure Linius.	Starch, corn	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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Physical and chemical p	operties							
Appearance: Solid, Odor: Bland odor. Odor threshold: Da pH: Data not availal	white powder. ata not available. ble. point: Data not available not available	Evaporation ra Flammability (s Explosion limit Vapor pressure Vapor density Relative densit	Evaporation rate (= 1): Data not availablePartition coefficient: Data not availableFlammability (solid/gas): Data not available.Auto-ignition temperature: 410°C (770°F) [cloud]Explosion limits: Lower / Upper: Data not availableDecomposition temperature: Data not available.Vapor pressure (mm Hg): Data not availableViscosity: Data not available.Vapor density (Air = 1): Data not availableMolecular formula: (C ₆ H ₁₀ O ₅) _n Relative density (Specific gravity): 1.45-1.6Molecular weight: (162.15) _n						
Section 10	Stability and reactivity								
Chemical stability:	Stable	Hazardo	us polymerization:	Will not occur.					
	d: Excessive temperatures, hea	t, sparks, open fla	me and other source	s of ignition. Avoid p	ractices which	produce dust.			
Incompatible mate	rials: No data available.								
Hazardous decom	oosition products: None.								
Section 11 Toxicological information									
Acute toxicity: Data not available Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not available Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential 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 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-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Inhalation: Inhalation fingh concentrations may cause unpleasant deposits in the nasal passages. I									
Section 12	Ecological information								
Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal considerations These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.									
Section 14	Transport information						······································		
Hazard class: N	Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # Not applicable Reportable Quantity: No Marine 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 Starch, corn		Listed	CERLCA (RQ) Not listed	RCRA code Not listed	DSL Listed	NDSL Not listed	CA Prop 65 This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.		
Section 16	Other information								
dent determinations of	suitability and completeness of infor ency for Research on Cancer, OSH	mation from all sour	ces to assure proper use	of these materials and	the safety and he	ealth of employees	ered by them and must make indepen- s. NTP: National Toxicology Program, osure, RE: Repeated Exposure,		

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Section 1

Identification

by Aldon INNOVATING SCIENCE

"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 ACETIC ACID, 5% SOLUTION	
Synonyms Acetic Acid, Water Solution / Simulated Acid Rain	
Section 2 Hazards identification	
Signal word: WARNINGPictograms: No symbol requiredTarget organs: None knownGHS Classification:Eye irritation (Category 2B)GHS Label information: Hazard statement:H320: Causes 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.

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 Acetic acid		7732-18-5 64-19-7	95% 5%	231-791-2 200-580-7			
Section 4	First aid measures						

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

INHALATION: MAY BE HARMFUL IF INHALED. 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: 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 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. This chemical reacts violently with strong oxidizers, generating a fire and explosion hazard. Reacts violently with strong bases, strong acids and many other compounds.

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. Keep away from ignition sources.

Section 8	Exposure controls / personal protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)				
Exposure Limits.	Acetic acid	TWA: 25 mg/m ³ STEL: 37 mg/m ³	TWA: 25 mg/m ³	TWA: 25 mg/m ³ STEL: 37 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 and chemica	l properties						
	odor. ata not available. ble. :: Approximately 0°C (32°F) (wate ximately 100°C (212°F) (wate	Flammability (Explosion limi Vapor pressur) Vapor density Relative density	tte (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-ignitie Decompos Viscosity: Molecular f		: Data not available I re: Data not available. ble. e	
Section 10	Stability and reactivity	r						
Chemical stability: Conditions to avoid	Stable I: Excessive temperatures		us polymerization: V	Vill not occur.				
Incompatible materials: Bases, strong oxidizers, chromic acid, nitric acid, sodium peroxide, carbonates, hydroxides, phosphates. Corrosive to some metals. Potentially violent reaction with acetaldehyde and acetic anhydride. Ignites on contact with potassium-tert-botoxide.								
Hazardous decomp	osition products: Carbon	monoxide, hydrogen	sulfide and other harm	ful gases or vapors	including oxide	s and/or other o	ompounds of sulfur and sodiur	
Section 11	Toxicological informat	ion						
Skin corrosion/irrit Serious eye damag Respiratory or skin Germ cell mutagen Carcinogenity: Dal NTP: No componen IARC: No componen OSHA: No componen 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: Contact with s Eyes: Contact with Signs and symptor Additional informatic	to f this product present at least of the product does not contain any of the product does not available ure: Data not available Data not available Data not available ects: armful if inhaled. armful if swallowed. kin causes pain and redness eyes may cause redness an so of exposure: See Potertion: RTECS #: AF122500	irritant. [Acetic acid, g Severe irritant. [Acetic vailable evels greater than or e evels greater than or levels greater than or shemicals known to th themicals known to th d pain. tial health effects abo 0 [Acetic acid, glacial]	lacial] acid, glacial] qual to 0.1% is identifi equal to 0.1% is identifi equal to 0.1% is identi equal to 0.1% is identi e State of California to	ed as a known or ar fied as probable, po iified as a carcinoge cause cancer or re	nticipated carcin ssible or confirr n or potential c productive toxic	nogen by NTP. ned human card arcinogen by OS bity.	0 ,	
Section 12	Ecological information	ı						
Toxicity to daphnia Toxicity to algae: E Persistence and de Mobility in soil: No	mbusia affinis (fish, fresh wa and other aquatic invertel uglena gracilis (Algae), EC1 gradability: Easily biodegr data available ts: An environmental haza Disposal consideratio	brates: Daphnia mag 00 = 720 mg/L [Acetic adable Bioaccumu PBT and vi rd cannot be excluded	na (Crustacea), EC50 acid, glacial] Ilative potential: Not PvB assessment: No	= 95 mg/L/24 hours expected to bioaccu data available	umulate	acial]		
	•		og-size quantities or	nlv Federal regul	ations may an	poly to empty o	ontainer. State and/or local	
	e different. Dispose of in	accordance with all						
Section 14	Transport information							
UN/NA number: Hazard class: No Exceptions: No	ot applicable P	hipping name: N acking group: N 020 ERG Guide #	ot applicable	Reportable Qua	antity: No	Ma	arine pollutant: No	
Section 15	Regulatory informatio		11					
A chemical is considere	d to be listed if the CAS numbe	r for the anhydrous form	is on the Inventory list.					
Compone	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65	
Acetic acid, glacial		Listed	5,000 lbs (2270 kg)	D001, D002	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.	
Section 16	Other information							
dent determinations of	suitability and completeness of i ency for Research on Cancer, O	nformation from all source	ces to assure proper use	of these materials and	the safety and he	ealth of employees	ered by them and must make indep s. NTP: National Toxicology Progra osure, RE: Repeated Exposure,	

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Section 1

Identification

INNOVATING SCIENCE® by Aldon 221 Roc Avon, N

"Cutting edge science for the classroom"

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only.

Not for drug, food or household use.

Product	CALCIUM CHLORIDE, 5% SOLUTION	
Synonyms	Calcium Chloride, Aqueous Solution	
Section 2	Hazards identification	
Pictograms Target orga GHS Classi Eye irritatior GHS Label	I: WARNING : No symbol required ns: None known fication: (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 15 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 7732-18-5 95% 231-791-2 Water Calcium chloride 10043-52-4 5% 233-140-8 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.

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 Linius.	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.

approved respirator.							
Section 9	Physical and chemical pro	perties					
	colorless liquid. ta not available. le. Approximately 0°C (32°F) (water) simately 100°C (212°F) (water) ot available	Evaporation ra Flammability (Explosion limi Vapor pressur Vapor density Relative density	ate (Water = 1): <1 solid/gas): Data not its: Lower / Upper: e (mm Hg): 14 (wate (Air = 1): 0.7 (water) (Specific gravity): App : Complete in water.	Data not available r)	Auto-ignitie Decompos Viscosity: Molecular f		e: Data not available ure: Data not available. ble. re
Section 10	Stability and reactivity						
	Excessive temperatures which	n cause evaporat					
Incompatible materi	als: Avoid contact with sulfuric	acid. Flammable	e hydrogen may be ge	nerated from contact	with metals su	ich as zinc and	sodium.
Hazardous decomp	osition products: None knowr						
Section 11	Toxicological information						
Skin corrosion/irrita Serious eye damage Respiratory or skin Germ cell mutageni Carcinogenity: Data NTP: No component IARC: No component OSHA: No component Ca Prop 65: This pro Reproductive toxici STOT-single expose STOT-repeated expo Aspiration hazard: Potential health effe Inhalation: Dust may Ingestion: Low toxici Skin: Contact with sk Eyes: Contact with effe Signs and symptom Additional informati	of this product present at levels to f this product present at level at of this product present at level duct does not contain any cheme ty: Data not available poure: Data not available Data not available tets: cause irritation to the upper rest y if swallowed. However, large kin may cause irritation and/or d yes may cause severe irritation is of exposure: See Potential ion: RTECS #: EV9810000 [C	greater than or e s greater than or ls greater than or icals known to th spiratory tract (no amounts may re efatting on prolor and/or corneal ir nealth effects abo	equal to 0.1% is identi equal to 0.1% is ident equal to 0.1% is ident e State of California to se and throat). sult in gastrointestinal nged contact. njury.	ied as a known or an ified as probable, pos tified as a carcinoger o cause cancer or rep	sible or confirr a or potential c roductive toxic	med human care arcinogen by O	
Section 12	Ecological information						
Toxicity to daphnia Toxicity to algae: No Persistence and deg Mobility in soil: No Other adverse effect Section 13	gradability: No data available data available ts: An environmental hazard ca Disposal considerations	Bioaccumu PBT and vi nnot be excluded	na (water flea), LC50: Ilative potential: No PvB assessment: No d in the event of unpro	759-3,005 mg/L [Cal data available o data available fessional handling or	disposal.	ably to accent	ontoing: State and/or local
	delines are intended for the or different. Dispose of in accord			· · · ·			container. State and/or local emical disposal agency.
Section 14	Transport information						
UN/NA number: Hazard class: Not Exceptions: Not	applicable Pack 2020	bing name: N ing group: N ERG Guide #		Reportable Qua	ntity: No	Ma	arine pollutant: No
Section 15	Regulatory information to be listed if the CAS number for t	he aphydrous farm	is on the Inventory list				
A chemical is considered Compone		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Calcium 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	ed herein is furnished without warra						ered by them and must make indepen s. NTP: National Toxicology Program,

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

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Ro. W

"Cutting edge science for the classroom"

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

Product DISHWASHING DETERGENT - MACHINE	
Synonyms 5% Detergent Solution	
Section 2 Hazards identification	
Section 2 Hazards identification This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: None required Pictograms: No symbol required Target organs: None known GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required	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	1
Physical hazards not otherwise classified (PHNOC) - Not Known	

Section 3 Composition / in	formation on ingredients			
Chemical Name	CAS #	%	EINECS	
Water Machine dishwashing detergent*	7732-18-5 Not available	95% 5%	231-791-2 Not available	
*(Contains: Water, sufactants, and other in	ert ingredients)			
Section 4 First aid measure				

Section 4 First aid measures

INGESTION: MAY BE HARMFUL BY 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: CAUSES 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 extinguishing agent suitable for type of surrounding 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: There are no unusual fire and explosion hazards associated with the solution.

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. Spill area may be slippery. Flush with plenty of water.

ERG: Emergency Response Guidebook.

Form 06/2015

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

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

Section 8	Exposure controls / personal protection							
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)				
Exposure Limits.	Not listed	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.

	Discustered and also	sta at usua a sutta a						
Section 9	Physical and chen				Deutition	filelent: D-i	ant available	
	Data not available. able. nt: Approximately 0°C (32°F) (v roximately 100°C (212°F) (v	Water) Relative density (<pre>tte (Water = 1): <1 solid/gas): Data not av ts: Lower / Upper: Da e (mm Hg): 14 (water) (Air = 1): 0.7 (water) (Specific gravity): Appro> Complete in water.</pre>	ta not available	Auto-ignition Decompositi Viscosity: D Molecular fo		Data not available e: Data not availal e.	
Section 10	Stability and react	ivity						
Chemical stability Conditions to avo	r: Stable id: Excessive temperatu		ous polymerization: Wation.	Vill not occur.				
Incompatible mat	erials: None known.							
Hazardous decom	position products: Nor	ne known.						
Section 11	Toxicological infor	mation						
Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No componer Ca Prop 65: This pr Reproductive toxi STOT-single expo STOT-repeated ex	nt of this product present ent of this product present leant of this product preser roduct does not contain a icity : Data not available sure : Data not available posure : Data not available : Data not available	at levels greater than or at levels greater than or at at levels greater than o ny chemicals known to t	equal to 0.1% is identifi or equal to 0.1% is identi	ied as probable, po fied as a carcinoge	ssible or confirm n or potential ca	ed human carci rcinogen by OS		
Inhalation: No adv Ingestion: May be Skin: May cause ir Eyes: Causes irrita Signs and sympto	erse effects expected. harmful if swallowed in la ritaiton on prolonged or re ation on direct contact, bu oms of exposure: To the	epeated contact. t no permanent injury is best of our knowledge t	he chemical, physical ar	nd toxicological pro	perties have not	been thoroughl	y investigated. Sp	ecific data
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nhalation: No adv ngestion: May be Skin: May cause in Eyes: Causes irrita Signs and sympto not available. Exer Additional informs Section 12 Toxicity to fish: N Toxicity to fish: N Toxicity to algae: Persistence and d Mobility in soil: N Other adverse effe Section 13 These disposal g regulations may the Section 14 UN/NA number: Hazard class: N Exceptions: N Section 15	erse effects expected. harmful if swallowed in la ritation on prolonged or ra ation on direct contact, bu oms of exposure: To the rcise appropriate procedu ation: RTECS #: Data n Ecological informa lo data available legradability: No data available legradability: No data available ects: An environmental h Disposal consider uidelines are intended be different. Dispose o Transport informa : Not applicable Not applicable ot applicable Regulatory informa	epeated contact. t no permanent injury is best of our knowledge t res to minimize potential ot available tition ertebrates: No data available Bioaccum PBT and azard cannot be exclude ations for the disposal of cat f in accordance with a tition Shipping name: Packing group: I 2020 ERG Guide a ation	he chemical, physical ar hazards. alable PvB assessment: No ed in the event of unprofe alog-size quantities or Il local, state and fede Not Regulated Not Regulated Not applicable # Not applicable	lata available data available essional handling o nly. Federal regul ral regulations or	r disposal. ations may app contract with a	oly to empty co a licensed cher	ontainer. State a mical disposal ag	nd/or loc jency.
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GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE[®] by Aldon 221 Roc Avon, N

"Cutting edge science for the classroom"

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

Product DISHWASHING DETERGE	NT - HAND	
Synonyms 5% Detergent Solution		
Section 2 Hazards identified	ation	
This substance or mixture has not beer to the Globally Harmonized System (GF Chemicals. Signal word: None required Pictograms: No symbol required Target organs: None known GHS Classification: None required GHS Label information: Hazard stateme Precautionary statement: None required	S) of Classification and Labeling of nt: None required	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.

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 Liquid dishwashing detergent*	7732-18-5 Not available	95% 5%	231-791-2 Not available				
*(Contains: Water, sufactants, and other inert ingredients)							
Section 4 First aid measures			1				

INGESTION: MAY BE HARMFUL BY 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: CAUSES 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 extinguishing agent suitable for type of surrounding 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: There are no unusual fire and explosion hazards associated with the solution.

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. Spill area may be slippery. Flush with plenty of water.

ERG: Emergency Response Guidebook.

Form 06/2015

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

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

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Limits.	Not listed	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 chem	nical properties						
pH: Data not avai Melting / Freezing poi	s odor. Data not available. ilable. int: Approximately 0°C (32°F) (v proximately 100°C (212°F) (w	vater) Relative density Relative density	ate (Water = 1): <1 (solid/gas): Data not ar its: Lower / Upper: Data re (mm Hg): 14 (water) (Air = 1): 0.7 (water) (Specific gravity): Appro : Complete in water.	ata not available	Auto-ignition Decomposition Viscosity: Da	on temperature ata not available mula: Mixture	Data not availabl Data not availa	
Section 10	Stability and reacti	vity						
Chemical stability Conditions to avo	-	Hazaro	dous polymerization:	Will not occur.				
	terials: None known.	I.						
	mposition products: Non	ne known.						
Section 11	Toxicological infor	mation						
Carcinogenity: D NTP: No compone IARC: No compone OSHA: No compor Ca Prop 65: This p Reproductive tox	ent of this product present a tent of this product present nent of this product presen product does not contain a cicity: Data not available	at levels greater than or at levels greater than c it at levels greater than	r equal to 0.1% is identi or equal to 0.1% is iden	fied as probable, pos tified as a carcinoge	sible or confirme or potential car	ed human carcir cinogen by OSF	0,	
STOT-repeated ex Aspiration hazard Potential health e Inhalation: No adv Ingestion: May be Skin: May cause i Eyes: Causes irrit Signs and sympto	osure: Data not available xposure: Data not available d: Data not available effects: verse effects expected. a harmful if swallowed in lau irritaiton on prolonged or re- tation on direct contact, but coms of exposure: To the ercise appropriate procedur	rge amounts. speated contact. t no permanent injury is best of our knowledge	the chemical, physical a	nd toxicological pro	perties have not t	been thoroughly	r investigated. Sp	ecific data
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Section 1

Identification

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Product IODINE-POTASSIUM IODIDE SOLUTION	
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Synonyms Iodine-Iodide / Iodine Solution / Iodine Lugol's Dilute / Gram's Iodine Solution / Dilute Lugol's Solution Section 2 Hazards identification Signal word: WARNING Precautionary statement(s): Pictograms: GHS07 / GHS09 P261: Avoid breathing mist/vapours/spray. Target organs: Thyroid, kidneys, endocrine system, skin, eyes, P271: Use only outdoors or in a well-ventilated area. reproductive system, central nervous system. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap P312: Call a POISON CENTER or doctor if you feel unwell. P362+P364: Take off contaminated clothing and wash it before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for **GHS Classification:** breathing. Acute toxicity, dermal (Category 4) P391: Collect spillage. Acute toxicity, inhalation (Category 4) P501: Dispose of contents/container to a licensed chemical disposal agency in Aquatic toxicity, acute (Category 1) accordance with local/regional/national regulations. GHS Label information: Hazard statement(s): H312: Harmful in contact with skin.

Hazards not otherwise classified:

H332: Harmful if inhaled. H400: Very toxic to aquatic life.

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 iodide Iodine		7732-18-5 7681-11-0 7553-56-2	95.10% 3.05% 1.85%	231-791-2 231-659-4 231-442-4		
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: HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. Harmful if inhaled

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

SKIN ABSORPTION: HARMFUL IN CONTACT WITH SKIN. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention. Harmful in contact with skin.

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

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.

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.

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. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling.

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

Section 8 Exposure controls / personal protection **Chemical Name** ACGIH (TLV) OSHA (PEL) NIOSH (REL) Exposure Limits: TWA: 0.01 ppm^(IFV)/ STEL: 0.1 ppm^(V) Iodine CAS # 7553-56-2 STEL: C 0.1 ppm/C 1 mg/m³ STEL: C 0.1 ppm/C 1 mg/m³ 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 misty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator. Physical and chemical properties Section 9 Appearance: Deep amber liquid. Evaporation rate (Water = 1): < 1 Partition coefficient: (n-octanol / water): Not applicable Odor: Characteristic odor Flammability (solid/gas): Not applicable. Auto-ignition temperature: Not applicable Odor threshold: Not applicable. Explosion limits: Lower / Upper: Not applicable Decomposition temperature: Data not available. Vapor pressure (mm Hg): 14 [water] Viscosity: Data not available. pH: Data not available Melting / Freezing point: ~ 0°C (~ 32°F) [water] Vapor density (Air = 1): 0.7 [water] Molecular formula: Mixture Boiling point: ~ 100°C (212°F) [water] Relative density (Specific gravity): 1.0 [water] Molecular weight: Mixture Flash point: Not flammable. Solubility(ies): Complete in water. Section 10 Stability and reactivity Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Stable under recommended storage conditions. Excessive temperatures which cause evaporation. Incompatibilities with other materials: Metals or unsaturated organic compounds, ammonia solutions or alkaline solutions of ammonia salts. Will form explosive nitrogen iodides when reacted with gaseous ammonia. Hazardous decomposition products: Toxic iodide fumes Section 11 **Toxicological information** Acute toxicity: Oral-Rat LD50: 14,000 mg/kg [lodine CAS # 7553-56-2] Skin corrosion/irritation: Data not available Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Inhalation-rat 3.1 mg/m³ / 24 hour / 13 weeks - continuous [lodine CAS # 7553-56-2] Germ cell mutagenicity: Data not available Carcinogenity: Data not available 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. 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 NTF 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: Symptoms include cough, wheezing, and labored breathing. Symptoms may be delayed. Ingestion: Causes abdominal pain, diarrhea, nausea, and vomiting. Ingestion of levels of 2-3 grams of iodine may cause death. Skin: Contact may cause redness and pain. Eyes: Contact causes watering of the eyes, redness and pain. Signs and symptoms of exposure: Effects of short-term exposure: Lachrymator. The substance is severely irritating to the eyes and the respiratory tract, and is irritating to the skin. Inhalation of the vapor may cause asthma-like reactions. Inhalation of the vapor may cause lung edema. The effects may be delayed. Effects of long-term exposure: Repeated or prolonged contact may cause skin sensitization in rate cases. Repeated or prolonged inhalation exposure may cause asthma-like syndrome. The substance may have effects on the thyroid. Specific data not available for this mixture. Exercise appropriate procedures to minimize potential hazards. Additional information: RTECS #: NN1575000 [lodine CAS # 7553-56-2] Section 12 Ecological information Toxicity to fish: Very toxic to aquatic life. Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **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. Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # 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 lodine Listed Not listed Not listed Listed Not listed any chemicals known to the State Potassium iodide Listed Not listed Not listed Listed Not listed 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,

Form 06/2015

ERG: Emergency Response Guidebook

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Section 1

Identification

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Product	LUGOL'S DILUTE IODINE					
Synonyms						
Section 2						
Pictograms Target orga reproductive GHS Classi Acute toxicil Acute toxicil Aquatic toxi GHS Label H312: Harrr H332: Harr	d: WARNING s: GHS07 / GHS09 ans: Thyroid, kidneys, endocrine system, skin, eyes, e system, central nervous system.	 Precautionary statement(s): P261: Avoid breathing mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P280: Wear protective gloves/protective clothing/eye protection/face protection. P302+P352: IF ON SKIN: Wash with plenty of water and soap. P312: Call a POISON CENTER or doctor if you feel unwell. P362+P364: Take off contaminated clothing and wash it before reuse. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable fo breathing. P391: Collect spillage. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. 				

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

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

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Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. **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. Section 14 Transport information UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: No Marine pollutant: No Exceptions: Not applicable 2020 ERG Guide # 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 lodine Listed Not listed Not listed Listed Not listed any chemicals known to the State Potassium iodide Listed Not listed Not listed Listed Not listed 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,

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ERG: Emergency Response Guidebook

Section 1

SAFETY DATA SHEET

GENERAL STORAGE CODE GREEN

Page E1 of E2

by Aldon INNOVATING SCIENCE

"Cutting edge science for the classroom"

Identification

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	SOAP - LIQUID, 5%	
Synonyms	5% Liquid Soap	
Section 2	Hazards identification	
to the Glob Chemicals. Signal word Pictograms Target orga GHS Class GHS Label	ance or mixture has not been classified as hazardous according bally Harmonized System (GHS) of Classification and Labeling of d: None required s: No symbol required ans: None known ification: None required information: Hazard statement: None required ary statement: None required	Supplemental information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wea 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 Oleic acid Sodium hydroxide		7732-18-5 112-80-1 1310-73-2	99.88% 0.10% 0.02%	231-791-2 204-007-1 215-185-2	
Section 4	First aid measures				

INGESTION: MAY BE HARMFUL BY 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: CAUSES 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 extinguishing agent suitable for type of surrounding 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: There are no unusual fire and explosion hazards associated with the solution.

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. Spill area may be slippery. Flush with plenty of 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.

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Limits.	Not listed	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 and chem						
Odor: No odor. Odor threshold: pH: Data not avail Melting / Freezing poi	pint: Approximately 0°C (32°F) (w proximately 100°C (212°F) (w	vater) Relative density Relative density	ate (Water = 1): <1 (solid/gas): Data not ar its: Lower / Upper: Da re (mm Hg): 14 (water) (Air = 1): 0.7 (water) (Specific gravity): Appro: Complete in water.	ata not available	Auto-ignitio Decomposit Viscosity: [Molecular fo		: Data not available re: Data not available. le.
Section 10	Stability and reactive	vity					
Chemical stability Conditions to avo	y: Stable oid: Excessive temperatur		dous polymerization:	Will not occur.			
	terials: Strong oxidizers, a	•					
Hazardous decor	mposition products: Non	ne known.					
Section 11	Toxicological infor	mation					
IARC: No compone OSHA: No compore Reproductive tox STOT-single expo	ent of this product present a nent of this product present nent of this product presen kicity: Data not available	at levels greater than c	or equal to 0.1% is identi	fied as probable, po	ssible or confirn	ned human card	0,
Aspiration hazarc Potential health e Inhalation: No adv Ingestion: May be Skin: May cause in Eyes: Causes irrit Signs and symptu not available. Exe	xposure: Data not availab d: Data not available effects: verse effects expected. e harmful if swallowed in lar irritaiton on prolonged or re tation on direct contact, but toms of exposure: To the ercise appropriate procedur	rge amounts. epeated contact. t no permanent injury is best of our knowledge res to minimize potentia	the chemical, physical a	nd toxicological pro	perties have not	t been thorough	ly investigated. Specific data
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Aspiration hazard Potential health e Inhalation: No adv Ingestion: May be Skin: May cause in Eyes: Causes irrit Signs and sympton not available. Exe Additional inform Section 12 Toxicity to fish: Noticity to daphin Toxicity to fish: Noticity to daphin Toxicity to dapae: Persistence and Constitution Nother adverse eff Section 13 These disposal gregulations may Section 14 UN/NA number Hazard class: Exceptions: No Section 15	xposure: Data not availab d: Data not available effects: verse effects expected. e harmful if swallowed in lar irritaiton on prolonged or re tation on direct contact, but toms of exposure: To the ercise appropriate procedur nation: RTECS #: Data no Ecological informa No data available degradability: No data available degradability: No data available fects: An environmental he Disposal considera guidelines are intended f be different. Dispose of Transport informa r: Not applicable Not applicable Not applicable Regulatory informa ered to be listed if the CAS nur Donent	rge amounts. appeated contact. t no permanent injury is best of our knowledge res to minimize potentia ot available tion artebrates: No data ava vailable Bioaccur PBT and azard cannot be exclud ations for the disposal of car f in accordance with a tion Shipping name: Packing group: 2020 ERG Guide ation	the chemical, physical a all hazards. allable nulative potential: No vPvB assessment: No ed in the event of unpro talog-size quantities o all local, state and fed Not Regulated Not applicable # Not applicable	data available o data available fessional handling o nly. Federal regu eral regulations of	or disposal. lations may ap contract with	ply to empty c a licensed che	container. State and/or loc mical disposal agency.

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GENERAL STORAGE CODE GREEN

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Section 1

Identification

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

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

Product STARCH, 1% INDICATOR SOLUTION	
Synonyms Starch, Aqueous Solution	
Section 2 Hazards identification	
This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: Not classified Pictograms: Not classified Target organs: None known GHS Classification: Not classified GHS Label information: Hazard statement(s): Not classified Precautionary statement(s): 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	98.9% 1.0% 0.1%	231-791-2 232-686-4 202-785-7		
Section 4	First aid measures					

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 Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)						
	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.

approved respirator.								
Section 9	Physical and chemi	cal properties						
• • • •	ata not available. ble. : Approximately 0°C (32°F) (w ximately 100°C (212°F) (wa	ater) Relative densit	rate (Water = 1): <1 (solid/gas): Data not nits: Lower / Upper: ure (mm Hg): 14 (wate y (Air = 1): 0.7 (water y (Specific gravity): App): Complete in water.	Data not available er))	Auto-igniti Decompos Viscosity: Molecular	•	: Data not available Ire: Data not available. ble. e	
Section 10	Stability and reactiv	vity						
Chemical stability: Conditions to avoid	Stable Excessive temperature		ous polymerization: ation.	Will not occur.				
Incompatible mater	ials: No data available.							
Hazardous decomp	osition products: None	2.						
Section 11	Toxicological inform	nation						
Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No componen OSHA: No componen Ca Prop 65: This pro Reproductive toxici STOT-single exposes STOT-repeated exp STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: None exp Ingestion: Ingestion Skin: No hazard kno Eyes: Contact with e Signs and symptom not available. Exerci	of this product present a t of this product present in of this product present duct does not contain an ity: Data not available osure: Dat	t available t levels greater than or at levels greater than o at levels greater than o y chemicals known to t le on. ation. best of our knowledge to as to minimize potentia	r equal to 0.1% is iden or equal to 0.1% is iden he State of California t the chemical, physical I hazards.	tified as probable, po ntified as a carcinoge o cause cancer or re	ssible or confir n or potential o productive toxi	med human card carcinogen by OS city.		data is
	ion: RTECS #: GM509	•	3]					
Toxicity to algae: No Persistence and de Mobility in soil: No	and other aquatic inve o data available gradability: No data ava	rtebrates: No data ava ailable Bioaccun PBT and t	nulative potential: No vPvB assessment: N	o data available	r disposal.			
Section 13	Disposal considera	tions						
These disposal gui regulations may be	delines are intended for different. Dispose of	or the disposal of cat in accordance with a	alog-size quantities of light	only. Federal regulations or	ations may a contract with	pply to empty c a licensed che	ontainer. State and/or le mical disposal agency.	local
Section 14	Transport informat							
UN/NA number: Hazard class: No Exceptions: Not	ot applicable	Shipping name: Packing group: 1 2020 ERG Guide #	Not applicable	Reportable Qua	antity: No	Ma	rrine pollutant: No	
Section 15	Regulatory information	tion						
	d to be listed if the CAS num							
Compone	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65	
Starch, soluble		Listed	Not listed	Not listed	Listed	Not listed	This product does not contai any chemicals known to the of California to cause cancer reproductive toxicity.	e State
Section 16	Other information							
dent determinations of s	suitability and completeness ncy for Research on Cancer	of information from all sou	irces to assure proper use	e of these materials and	the safety and h	nealth of employees	ered by them and must make i s. NTP: National Toxicology P osure, RE: Repeated Exposur	Program