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Section 1

Chemical Product and Company Identification

Innovating Science[®] by Aldon Corporation

"cutting edge science for the classroom"

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

Not for drug, food or household use.

Product	AMYLASE						
Synonyms	Bacterial Amylase (50,000 BAU/g) / Alpha-Amylase / α-Amylase						
Section 2	Hazards Identification						
Pictograms Target orga GHS Class Respiratory GHS Label Hazard stat	infication: sensitization (Category 1) information:	 Precautionary statement: P261: Avoid breathing dust. P284: Wear respiratory protection. P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with all local, state and federal regulations. 					

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

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Calcium carbonate Amylase Starch, potato		1317-65-3 9000-90-2 9005-25-8	85-95% 3-8% 2-7%	215-279-6 232-565-6 232-679-6		
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 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.

Section 7	Handling & Storage			Page E2 of E2
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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 dusts. Wash thoroughly after handling. Remove and wash clothing before reuse. Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

Exposure Limits:	Chemical Na						NICOLL (DEL)
	Amylase		ACGIH (TLV) None established.		OSHA (PEL) None established		NIOSH (REL) None established.
Engineering contro				I			
	lasses, goggles, or faces						guishing material. Personne concentrations low.
Respiratory protect	tion: None should be nee	ded in normal labor	atory handling at room te	mperatures. If dust	, conditions prev	ail. work in fume	hood or wear a NIOSH/MSH
approved respirator.			<u> </u>		,	-,	
Section 9	Physical & Chemica	l Properties					
Appearance: Pale y	•		n rate (= 1): Data not a	vailable	Partition cor	fficient: (n octan	ol / water): Data not available
Odor: Characteristic			ty (solid/gas): Data not			· ·	Data not available
Odor threshold: Da			limits: Upper / Lower: I				e: Data not available
pH: Data not availat			<pre>sure (mm Hg): Negligibl sity (Air = 1): Data not av</pre>			Data not availabl ormula: Data no	
Boiling point: Decc	boint: Data not available		ensity (Specific gravity):			veight: Data not	
Flash point: Not fla			es): Soluble in water.				
Section 10	Stability & Reactivity	y					
	01.11.			MCH			
Chemical stability: Conditions to avoid	Stable d: Excessive temperature		ardous polymerization: under recommended sto				
	ith other materials: Stro						
•	osition products: Carb	0	ovides and sulfur ovides				
	Control producto. Odib	on onideo, milloyen	Shides and sundi UNIDES.				
Section 11	Toxicological Inform	ation					
	. Shietere giour inform						
Acute toxicity: Data							
	ation: Data not available						
	e/irritation: Data not ava sensitization: Data not						
• •	icity: Data not available						
Carcinogenity: Dat							
	of this product present at						
	t of this product present a						
OSHA: No compone	nt of this product present	at levels greater that	an or equal to () 1% is ide	ntitiod as a carcinod	en or potential ca	arcinogen by OS	HA.
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STOT-single expose STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: May caus Ingestion: No advers Skin: May cause alle Eyes: May cause alle Eyes: May cause irri Signs and symptom not been thoroughly Additional informat Section 12 Toxicity to fish: No Toxicity to daphnia Toxicity to daphae: No Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gui regulations may be Section 14 UN/NA number: Hazard class: No Section 15 Achemical is considered Compone Amylase	ure: Data not available osure: Data not available Data not available ects: se respiratory tract irritatic se health effects expected ergic reactions. itation. ns of exposure: May cal investigated. Specific da ion: RTECS #: Data no Ecological Informati data available gradability: No data avai data avai data avai data avai data avai data avai data avai data avai da	e on. d by ingestion. use coughing, sympta is not available. t available on tebrates: No data available Bioacc PBT ar zard cannot be exc tions or the disposal of of n accordance witt on (US DOT / CA Shipping name Packing group 2016 ERG Guict ion ber for the anhydrous TSCA Listed t warranty of any kind	available available available audita	o the best of our kno edures to minimize o data available lo data available ofessional handling only. Federal regu deral regulations of Reportable Qu RCRA code Not listed	wledge the chen potential hazards or disposal. ulations may ap r contract with Jantity: No DSL Not listed	nical, physical an s. ply to empty cc a licensed cher Ma NDSL Not listed	ontainer. State and/or loca nical disposal agency. rine pollutant: No
STOT-single exposed STOT-repeated exp Aspiration hazard: Potential health effe nhalation: May cause ngestion: No advers Skin: May cause alle Eyes: May cause alle Foxicity to adverse alle foxicity to fish: No foxicity to fish: No foxicity to daphnia foxicity to daphnia foxicity to daphnia foxicity to algae: No foxicity to algae: No for adverse effect Section 13 These disposal gui egulations may be fection 14 UN/NA number: Hazard class: No fection 15 .chemical is considered Compone Amylase	ure: Data not available osure: Data not available pata not available ects: se respiratory tract irritations ended the effects expected ergic reactions. itation. Ins of exposure: May car investigated. Specific dation: RTECS #: Data no Ecological Information data available and other aquatic inver o data available gradability: No data available gradability: No data available ets: An environmental ha Disposal Considera delines are intended for e different. Dispose of i Transport Information Not applicable ot applicable t applicable Regulatory Informat d to be listed if the CAS num ent Other Information ed herein is furnished withou suitability and completeness of	e on. d by ingestion. use coughing, symp ta is not available. t available on tebrates: No data a ailable Bioacc PBT ar zard cannot be exc tions on (US DOT / CA Shipping name Packing group 2016 ERG Guic ion ber for the anhydrous Listed t warranty of any kind of information from all	Available available	b the best of our kno edures to minimize o data available lo data available ofessional handling only. Federal regulations of Reportable Quarts Reportable Quarts RecRA code Not listed	wledge the chen potential hazard or disposal. lations may ap r contract with Jantity: No DSL Not listed	nical, physical an s. ply to empty cc a licensed cher Ma NDSL Not listed	ontainer. State and/or loc. nical disposal agency.

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Section 1

Chemical Product and Company Identification

CHEMTREC 24 Hour Emergency

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

Product BENEDICT'S QUALITATIVE SOLUTION							
Synonyms Benedict's Sugar Test Reagent ; Benedict's Solution ; Benedict's	Synonyms Benedict's Sugar Test Reagent ; Benedict's Solution ; Benedict's Qualitative Reagent						
Section 2 Hazards Identification							
Signal word: WARNING Pictograms: GHS07 / GHS09 Target organs: Liver, kidneys.	 Precautionary statement(s): P261: Avoid breathing mist/vapours/spray. P264: Wash hands thoroughly after handling. P270: Do not eat, drink or smoke when using this product. P271: Use only outdoors or in a well-ventilated area. P273: Avoid release to the environment. P301+P330+P312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor if you feel unwell. P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing. P332+P313: If skin irritation occurs: Get medical attention. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical attention. P391: Collect spillage. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations. 						

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

Section 3 Composition / Information on Ingredients						
Chemical Name	CAS #	%	EINECS			
Water Sodium citrate Sodium carbonate Cupric sulfate, pentahydrate	7732-18-5 68-04-2 497-19-8 7758-99-8	77.9% 13.7% 6.9% 1.5%	231-791-2 200-675-3 207-838-8 231-847-6 (anhydrous)			

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: 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.

Section 7 Handling & Storage Page E2 of E2

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

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

Storage: Store in a cool, well-ventilated area away from incompatible substances.					
Section 8 Exposure Controls / Personal Protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	
Exposure Limits.	Cupric sulfate	TWA: 0.2 mg/m ³ copper fume as Cu	None established.	None established.	

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

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

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

Chemical stability: Stable

Stable Hazardous polymerization: Will not occur.

Conditions to avoid: Excessive temperatures which cause evaporation

Incompatibilities with other materials: Acids and strong oxidizers.

Hazardous decomposition products: Carbon oxides.

Section 11 Toxicological Information

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

Serious eye damage/irritation: Slightly irritating

Respiratory or skin sensitization: Not a sensitizer

Germ cell mutagenicity: Data not available

Carcinogenity: Data not available

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

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

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

Reproductive toxicity: Data not available

STOT-single exposure: Data not available

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

Potential health effects:

Inhalation: May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Skin: Contact may cause irritation.

Eyes: Contact may cause irritation.

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

Additional information: RTECS #: Not available for this mixture.

Section 12 Ecological Information

Toxicity to fish: Salmo gairdneri (Fish, estuary, fresh water) LC50: < .75-.84 mg/l Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available PBT and vPvB assessment: 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 (US DOT / CANADA TDG)

			· · · · · · · · · · · · · · · · · · ·					
UN/NA number: I Hazard class: Not Exceptions: Not	t applicable	Shipping name: Packing group: 2016 ERG Guide	Not applicable	Reportable Qua	antity: No	Mari	ine pollutant:	No
Section 15	Regulatory Informat	tion						
A chemical is considered	to be listed if the CAS num	ber for the anhydrous for	m is on the Inventory list.					
Componer	nt	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL		
All components listed	with TSCA.							
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.

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Section 1 Chemical Product and Company Identification

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

Not for drug, food or household use.

Product	GELATIN	
Synonyms	Protein	
Section 2	Hazards Identification	
Globally Har Signal word Pictograms: Target orgar	nce or mixture has not been classified as hazardous according to the rmonized System (GHS) of Classification and Labeling of Chemicals. : Not classified Not classified ns: 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 Classi	fication: Not classified	
GHS Label i	information: Hazard statement(s): Not classified	

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

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.

Section 7 Handling & Storage

Page E2 of E2

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

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

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

approved respirator.								
Section 9	Physical & Chemical Pro	perties						
Appearance: Solid, Odor: No odor. Odor threshold: Dat pH: Data not availat Melting / Freezing po Boiling point: Decon Flash point: Data no	a not available. ole oint: Decomposes oposes	Flammability (s Explosion limits Vapor pressure Vapor density (Relative densit	te (= 1): Data not av olid/gas): Data not av s: Lower / Upper: Dat (mm Hg): Negligible Air = 1): Data not ava y (Specific gravity): >1 nsoluble in cold water, so	ailable. a not available ilable .0	Auto-ignition Decomposit Viscosity: E Molecular fo	efficient: Data no n temperature: D tion temperature: Data not available prmula: Natural p veight: Mixture	ata not available Data not available	
Section 10 Stability & Reactivity								
Conditions to avoid: Incompatible materia	Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures anbd heat. Incompatible materials: Strong oxidizers. Hazardous decomposition products: Carbon oxides and nitrogen oxides.							
Section 11	Toxicological Information							
Skin corrosion/irritat Serious eye damage Respiratory or skin s Germ cell mutageni Carcinogenity: Data NTP: No componen IARC: No componen OSHA: No componen OSHA: No componen Reproductive toxicit STOT-single exposu STOT-repeated exp Aspiration hazard: Il Potential health effe Inhalation: No hazar Skin: No hazard kni Eyes: Contact with	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 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 OSHA. Reproductive toxicity: Data not available STOT-single exposure: Data not available STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: No hazard known. Ingestion: No hazard known. Skin: No hazard known. Stypes: Contact with eyes may cause transient irritation. Signs and symptoms of exposure: See Potential health effects above.							
Section 12	Ecological Information							
Toxicity to fish: No data available Toxicity to daphnia and other aquatic invertebrates: No data available Toxicity to algae: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.								
Section 13 These disposal qui	Disposal Considerations	disposal of cata	log-size quantities o	only. Federal regul	ations may ar	oply to empty co	ntainer. State and/or local	
These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency. Section 14 Transport Information (US DOT / CANADA TDG)								
UN/NA number:Not applicableShipping name:Not RegulatedHazard class:Not applicablePacking group:Not applicableReportable Quantity:NoExceptions:Not applicable2016 ERG Guide # Not applicableMarine pollutant:No								
Section 15	Regulatory Information							
A chemical is considere Compone	d to be listed if the CAS number for	the anhydrous form TSCA	is on the Inventory list.	RCRA code	DSL	NDSL		
Gelatin	/	Listed	Not listed	Not listed	Listed	Not listed		
Solution		Listed	Not noted		LISIOU			
Section 16	Other Information							
The information contain	ad barain is furnished without warrs	nty of any kind. Em	ployers should use this i	nformation only as a su	innlement to othe	r information acthor	red by them and must make indepen	

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

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Section 1 Chemical Product and Company Identification

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

Product	INVERTASE	
Synonyms	Fructofuranosidase, β-	
Section 2	Hazards Identification	
Pictograms Target orgs GHS Class Respiratory GHS Label	ans: None known	 Precautionary statement: P261: Avoid breathing dust. P284: In case of inadequate ventilation wear respiratory protection. 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. P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

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

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Invertase		9001-57-4	100%	232-615-7		
Section 4	First Aid Measures					

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

INHALATION: MAY CAUSE ALLERGY OR ASTHMA SYMPTOMS OR BREATHING DIFFICULTIES IF INHALED. 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.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale 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.	Invertase	Not established	Not established	Not 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 & Chemical Pro	perties					
Appearance: Solid. Odor: No odor Odor threshold: Da pH: Data not availab Melting / Freezing p Boiling point: Data Flash point: Data no	ta not available le oint: Data not available not available	Flammability (s Explosion limits Vapor pressure Vapor density (<i>i</i>	e (= 1): Data not a olid/gas): Data not :: Lower / Upper: I (mm Hg): Data not Air = 1): Data not av specific gravity): Data Soluble in water	available Data not available available railable	Auto-ignitic Decomposi Viscosity: Molecular f		Data not available 2: Data not available 2: t available
Section 10	Stability & Reactivity						
Incompatible mater	Stable Stable Strong oxidizers. Strong products: Carbon ox	d other sources of ig	is polymerization: nition.	Will not occur.			
Section 11	Toxicological Information	า					
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 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 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 OSHA. Ca Prop 65: 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 Stoil a health effects: Inhalation: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Ingestion: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Ingestion: May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin: Contact with skin may cause irritation, defatting on prolonged contact. Eyes: Contact with skin may cause irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise approprinte procedures to minimize potential hazards.							
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 Poter 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 (I			· · ·			
UN/NA number: Hazard class: No Exceptions: Not	ot applicable Pac	oping name: No king group: No 2 ERG Guide # 1	t applicable	Reportable Qua	antity: No	Mar	ine pollutant: No
Section 15	Regulatory Information						
	to be listed if the CAS number for		•		Del	NDC	
Compone Invertase	nt	TSCA Listed	CERLCA (RQ) Not listed	RCRA code Not listed	DSL Listed	NDSL Not listed	
Section 16	Other Information						
The information contain dent determinations of s	ed herein is furnished without warr	rmation from all source	s to assure proper use	of these materials and	the safety and he	ealth of employees.	ed by them and must make indepen- NTP: National Toxicology Program, ure, RE: Repeated Exposure,

Section 1 **Chemical Product and Company 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 Pictograms: None k	 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 several 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.

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

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

Suitable Extinguishing Media: Use extinguishing agent suitable for type of surrounding fire.

Fire Fighting Measures

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

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

Section 6 **Accidental Release Measures**

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

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

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.

Page E1 of E2

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

Not for drug, food or household use.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale 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 Limits.	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 & Chemical Prop	perties	
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 & 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.

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

Aspiration nazaru. Data no

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

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available

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

Mobility in soil: No data available PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Section 13 Disposal Considerations

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

UN/NA number: Not applicable Hazard class: Not applicable Exceptions: Not applicable	Shipping name: Packing group: 2012 ERG Guide	Not applicable	Reportable Qu	antity: No	Mari	i ne pollutant : No	
Section 15 Regulatory In	nformation						
A chemical is considered to be listed if the	CAS number for the anhydrous for	m is on the Inventory list.					
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL		-
Papain	Listed	Not listed	Not listed	Listed	Not listed		
Section 16 Other Inform	ation						
The information contained herein is furnish dent determinations of suitability and comp IARC: International Agency for Research o ERG: Emergency Response Guidebook.	leteness of information from all sou	urces to assure proper use	of these materials and	the safety and h	ealth of employees.	NTP: National Toxicology Progra	

Section 1 **Chemical Product and Company Identification**

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

Not for drug, food or household use.

Product	STARCH, SOLUBLE, POTATO	
Synonyms	Amylodextrin / Amylogen	
Section 2	Hazards Identification	
to the Globa Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label Hazard stat	Ince or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of 4: Not classified 5: Not classified 5: Not classified 5: Not classified 6: Information: 6: ement(s): Not classified 7: Not classified 7: Not classified 7: Not classified 7: Not classified 7: Not classified	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.

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

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Starch, soluble		9005-84-9	100%	232-686-4		
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: 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.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale 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 Pro	tection		
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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9 Physical & Chemical Prop	erties						
Appearance:Solid, white powder.Evaporation rate (=1):Data not availablePartition coefficient:Data not availableOdor:Bland odor.Flammability (solid/gas):Data not available.Auto-ignition temperature:410°C (770°F) [cloud]Odor threshold:Data not available.Explosion limits:Lower / Upper:Data not availableDecomposition temperature:Data not available.PH:Data not available.Vapor pressure (mm Hg):Data not availableViscosity:Data not available.Welting / Freezing point:Data not availableVapor density (Air = 1):Data not availableNolecular formula:(C ₆ H ₁₀ O ₅) _n Flash point:Data not availableSolubility(ies):5 g/100 ml water @ 20°C20°CNolecular weight:(162.15) _n							
Section 10 Stability & Reactivity							
Chemical stability: Stable Conditions to avoid: Excessive temperatures, hea		erization: Will not occur. her sources of ignition. Avoid	practices which	produce dust.			
Incompatible materials: No data available.		U U		•			
Hazardous decomposition products: None.							
Section 11 Toxicological Information							
Serious eye damage/irritation: Data not available Respiratory or skin sensitization: Data not availa Germ cell mutagenicity: Data not available Carcinogenity: Data not available NTP: No component of this product present at level IARC: No component of this product present at level OSHA: No component of this product present at leve OSHA: No component of this product present at leve STOT-single exposure: Data not available STOT-repeated exposure: Data not available STOT-repeated exposure: Data not available Potential health effects: Inhalation: Inhalation of high concentrations may ca Ingestion: Ingestion may cause stomach irritation. Skin: No hazard known. Eyes: Contact with eyes may cause irritation. Signs and symptoms of exposure: See Potential Additional information: RTECS #: GM5090000 [greater than or equal to 0. s greater than or equal to 0 els greater than or equal to 0 use unpleasant deposits in health effects above.	1% is identified as probable, p .1% is identified as a carcinog	ossible or confirm	med human carcine	• •		
Section 12 Ecological Information							
Toxicity to fish: No data availableToxicity to daphnia and other aquatic invertebratToxicity to algae: No data availablePersistence and degradability: No data availableMobility in soil: No data availableOther adverse effects: An environmental hazard cSection 13Disposal Considerations	Bioaccumulative po PBT and vPvB asses	ential: No data available sment: No data available ent of unprofessional handling	or disposal.				
These disposal guidelines are intended for the	disposal of catalog-size q	uantities only. Federal regu	lations may ap	ply to empty con	tainer. State a	nd/or local	
regulations may be different. Dispose of in acc	ordance with all local, sta						
Section 14 Transport Information (U	•						
UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: Marine pollutant: No Exceptions: Not applicable 2016 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							
Component	TSCA CERL	CA (RQ) RCRA code	DSL	NDSL			
Starch, soluble	Listed No	listed Not listed	Listed	Not listed			
Section 16 Other Information							
The information contained herein is furnished without warra dent determinations of suitability and completeness of infor IARC: International Agency for Research on Cancer, OSHA ERG: Emergency Response Guidebook	nation from all sources to assur	e proper use of these materials an	d the safety and he	ealth of employees. N	NTP: National Toxic	cology Program,	

Form 06/2015

Section 1 **Chemical Product and Company Identification** Page E1 of E2 **CHEMTREC 24 Hour Emergency** Innovating Science[®] by Aldon Corporation Phone Number (800) 424-9300 221 Rochester Street For laboratory use only Avon, NY 14414-9409 "cutting edge science for the classroom" Not for drug, food or household use. (585) 226-6177 Product SUCROSE Synonyms Cane Sugar / Beet Sugar Section 2 Hazards Identification This substance or mixture has not been classified as hazardous according Supplemental information: to the Globally Harmonized System (GHS) of Classification and Labeling of Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective Chemicals. gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. Signal word: 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

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

Section 3	Composition / Information on Ingredients					
Chemical Name		CAS #	%	EINECS		
Sucrose		57-50-1	100%	200-334-9		
Section 4	First Aid Measures					

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

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

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

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

Section 5

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

Fire Fighting Measures

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

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Dust dispersed in air is capable of creating a dust explosion when exposed to an ignition source. Avoid dispersion of dust in air.

Section 6 Accidental Release Measures

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

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

Containment and Cleanup: Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale 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 Limits:	Sucrose	TWA: 10 mg/m ³ (A4)	TWA: 15 mg/m ³	TWA: 10 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 dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAapproved respirator.

Section 9	Physical & Chemical Properties						
Appearance: Solid. White granules. Odor: No odor. Odor threshold: Data not available. pH: Data not available. Melting / Freezing point: 185°C (365°F) Boiling point: Decomposes		Evaporation rate (= 1): Not applicable Flammability (solid/gas): Data not available. Explosion limits: Lower / Upper: Not applicable Vapor pressure (mm Hg): Negligible Vapor density (Air = 1): Data not available Relative density (Specific gravity): 1.58 Solubility(ies): Soluble in water			$\begin{array}{l} \textbf{Partition coefficient: (n-octanol / water): Data not available} \\ \textbf{Auto-ignition temperature: Data not available} \\ \textbf{Decomposition temperature: Data not available.} \\ \textbf{Viscosity: Data not available.} \\ \textbf{Molecular formula: } C_{12}H_{22}O_{11} \\ \textbf{Molecular weight: } 342.30 \end{array}$		
Section 10	Stability & Reactivity						
Incompatible mate	Stable d: Excessive temperatures. rials: Strong oxidizers. position products: Oxides of o		lous polymerization:	Will not occur.			
Section 11	Toxicological Information	I					
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 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 OSHA. 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 effects. STOT-repeated exposure: Data not available Aspiration hazard: Data not available Potential health effects: Inhalation: Inhalation may cause respiratory irritation. Ingestion: Not expected to be a health hazard. Skin: Not expected to be a health hazard. Sky: Not expected to be a health hazard. Eyes: Contact with eyes may cause transient irritation. Signs and symptoms of exposure: See Potential health effects above.							
	tion: RTECS #: WN6500000						
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 Bioaccumulative potential: No data available Persistence and degradability: No data available Bioaccumulative potential: No data available Mobility in soil: No data available PBT and vPvB assessment: No data available Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Section 13 Disposal Considerations							
	idelines are intended for the e different. Dispose of in acc	ordance with a	Il local, state and fed				
Section 14 Transport Information (US DOT / CANADA TDG) UN/NA number: Not applicable Shipping name: Not Regulated Hazard class: Not applicable Packing group: Not applicable Reportable Quantity: Marine pollutant: No Exceptions: Not applicable 2012 ERG Guide # Not applicable Section 15 Regulatory Information							
	ed to be listed if the CAS number for						
Compon	ent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	
Sucrose		Listed	Not listed	Not listed	Listed	Not listed	
Section 16	Other Information						
dent determinations of	ned herein is furnished without warra suitability and completeness of infor ency for Research on Cancer, OSH/ ponse Guidebook.	mation from all sou	rces to assure proper use	of these materials and	the safety and he	ealth of employees.	NTP: National Toxicology Program