2134306 GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

by Aldon Corporation 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.

DNA BLUE STAIN Product Synonyms Azure B / Nile Blue DNA Stain / DNA 20X Stain / Quick and Easy DNA Stain Section 2 Hazards identification Signal word: WARNING Precautionary statement(s): Pictograms: None required. P264: Wash hands thoroughly after handling. Target organs: None known. P312: Call a POISON CENTER or doctor if you feel unwell P501: Dispose of contents/container to a licensed chemical disposal agency in **GHS Classification:** accordance with local/regional/national regulations. Acute toxicity (Category 5) GHS Label information: Hazard statement(s): H303: May be harmful if swallowed.

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 Azure B stain Nile blue A sulfate		7732-18-5 531-55-5 3625-57-8	>99.0% < 0.1% < 0.1%	231-791-2 208-511-2 222-832-5	
Section 4	First aid moasuros				

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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild scap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
Exposure Linius.	Particulates not otherwise classified	None established	TWA: 5 mg/m ³ respirable fraction	None established			

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

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

Section 9	Physical and chemical prop	erties					
	k blue liquid. Data not available. able. nt: Approximately 0°C (32°F) (water) roximately 100°C (212°F) (water)	evaporation ra lammability (s xplosion limit apor pressure apor density telative 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.	ata not available)	Auto-igniti Decompos Viscosity: Molecular		Data not available re: Data not available. le.
Section 10	Stability and reactivity						
Incompatible mate	: Stable id: Excessive temperatures which of erials: Strong oxidizers. aposition products: Sulfur oxides a	cause evapora	bus polymerization: Vition.	Will not occur.			
Section 11	Toxicological information						
Serious eye dama Respiratory or ski Germ cell mutage Carcinogenity: Di NTP: No compone OSHA: No compone OSHA: No compone OSHA: No compone Ca Prop 65: This pi Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health ef Inhalation: May be Skin: Contact may Eyes: Contact may Eyes: Contact may Signs and sympto not available. Exer Additional information	nt of this product present at levels gr ent of this product present at levels g roduct does not contain any chemica city: Data not available sure: Data not available : Data not available : Data not available ffects: harmful by inhalation. harmful by ingestion. cause irritation.	eater than or e reater than or greater than o als known to th als known to th nize potential	equal to 0.1% is identi r equal to 0.1% is iden le State of California to ne chemical, physical a	fied as probable, pos tified as a carcinoger cause cancer or rep	ssible or confir n or potential o roductive toxi	med human carci carcinogen by OS city.	HA.
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 Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.							
Section 13	Disposal considerations						
regulations may b	uidelines are intended for the dis be different. Dispose of in accord	posal of cata dance with all	log-size quantities o l local, state and fed	nly. Federal regulations or	ations may a contract with	pply to empty contain a licensed che	ontainer. State and/or local mical disposal agency.
Section 14	Transport information						
UN/NA number: Hazard class: 1 Exceptions: N	Not applicable Packin	g group: N	Not Regulated lot applicable Not applicable	Reportable Qua	antity: No	Ма	rine pollutant: No
Section 15	Regulatory information						
A chemical is conside	red to be listed if the CAS number for the	anhydrous form	is on the Inventory list.				
Compo	nent	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Azure B Nile blue A		Listed Listed	Not listed Not listed	Not listed Not listed	Listed Listed	Not listed Not listed	This product does not contain any chemicals known to the State of California to cause cancer or

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

of California to cause cancer or reproductive toxicity.

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INNOVATING SCIENCE

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): ly after handling. ER or doctor/physician if you feel unwell. ontainer to a licensed chemical disposal agency al/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 / inform	nation on ingredients			
Chemical Name	CAS #	%	EINECS	
Water	7732-18-5	97.6%	231-791-2	
Tromethamine	77-86-1	1.0% (w/v)	201-064-4	
Agarose	9012-36-6	0.8%	232-731-8	
Boric acid	10043-35-3	0.5% (w/v)	233-139-2	
Ethylenediaminetetraacetic acid	6381-92-6	<0.1% (w/v)	200-449-4	

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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal protection					
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)		
Exposure Linits.	Borate compound, inorganic	TWA: 2 mg/m ^{3(I)} STEL: 6 mg/m ^{3(I)}	Not listed	Not listed		

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

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

Section 9 Physical and chemical p	operties							
Appearance: Clear 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.	Flammabilit Explosion li Vapor press Vapor densi Relative der	rate (=1): <1 y (solid/gas): N/A mits: Upper: N/A Lo ure (mm Hg): 14 [wa ty (Air = 1): 0.7 [wate sity (Specific gravity s): Complete.	ter] r]	Auto-igi Decomp Viscosit Molecul	nition temperatur	ture: N/A ure.		
Section 10 Stability and reactivity								
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Incompatible materials: None known. Incomposition products: Oxides of carbon, nitrogen oxides. Ville oxides. Ville oxides.								
Section 11 Toxicological information	I							
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 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 Aspiration hazard: Data not available Potential health effects: Inhalation: Not expected to be a health hazard. Ingestion: May be hazard. Eyes: Contact with eyes may cause irritation. Skin: Not expected to be a health hazard. Eyes: Contact with eyes may cause irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate 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 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 regulations may be different. Dispose of in acc								
Section 14 Transport information								
Hazard class: Not applicable Pac	pping name: 1 king group: N) ERG Guide #	0	Reportable Qua	antity: No	Ма	rine pollutant: No		
A chemical is considered to be listed if the CAS number for	the anhydrous form	is on the Inventory list.						
Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65		
Boric acid	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.		

Section 16 Other information

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

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

TRIS-BORATE-EDTA (TBE) 5X BUFFER CONCENTRATE Product Synonyms TBE Buffer 5X Hazards identification Section 2 Signal word: WARNING Precautionary statement(s): Pictograms: None required. P264: Wash hands thoroughly after handling. P312: Call a POISON CENTER or doctor/physician if you feel unwell. Target organs: None known. P501: Dispose of contents/container to a licensed chemical disposal agency in **GHS Classification:** accordance with all local, state and federal regulations. Acute toxicity (Category 5) GHS Label information: Hazard statement(s): H303: May be harmful if swallowed.

Hazards not otherwise classified:

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

Chemical Name CAS # % EINECS
Water 7732-18-5 91.48% 231-791-2
Tromethamine 77-86-1 5.4% (w/v) 201-064-4
Boric acid 10043-35-3 2.75% (w/v) 233-139-2
Ethylenediaminetetraacetic acid 6381-92-6 0.37% (w/v) 200-449-4

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: MAY CAUSE MILD 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.

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)	Γ		
Exposure Limits:	Borate compound, inorganic	TWA: 2 mg/m ^{3(I)} STEL: 6 mg/m ^{3(I)}	Not listed	Not listed	1		

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 pr	operties						
Appearance: Clear Odor: No odor. Odor threshold: N/, pH: N/A Melting / Freezing p Boiling point: ~ 100 Flash point: Not fla Evaporation rate (:	liquid. A oint: ~ 0°C (~ 32°F) [water])°C (212°F) [water] mmable.	Flammability (s Explosion limits Vapor pressure Vapor density (A Relative density Solubility(ies): Partition coeffic	s: Upper: N/A Lowe (mm Hg): 14 [water Air = 1): 0.7 [water] / (Specific gravity):	1.0 [water]	Viscosity: I Molecular fe	tion temperatur N/A ormula: Mixture veight: Mixture.		
Section 10	Stability and reactivity							
Chemical stability: Stable Hazardous polymerization: Will not occur. Conditions to avoid: Excessive temperatures which cause evaporation. Incompatible materials: None known. Hazardous decomposition products: Oxides of carbon, nitrogen oxides.								
Section 11	Toxicological information							
Skin corrosion/irrita Serious eye damag Respiratory or skin Germ cell mutageni Carcinogenity: Dat NTP: No component IARC: No component OSHA: No component Ca Prop 65: This pro Reproductive toxici STOT-single exposed STOT-repeated exp Aspiration hazard: Potential health effe Inhalation: Not expected the Skin: Not expected the Eyes: Contact with effects Signs and symptom	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 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. Co SHA: 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 Aspiration hazard: Data not available Potential health effects: Inhalation: Not expected to be a health hazard. Ingestion: May be harmful by ingestion. Skin: Not expected to be a health hazard. Eyes: Contact with eyes may cause irritation. Signs and symptoms of exposure: To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.							
Section 12	Ecological information							
Toxicity to daphnia Toxicity to algae: No Persistence and deg Mobility in soil: No Other adverse effect	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							
regulations may be Section 14 UN/NA number:		ordance with all ping name: N	local, state and fed lot Regulated	eral regulations or	contract with	a licensed che	mical disposal agency.	
Hazard class: No		ting group: N		Reportable Qua	antity: NO	Ma	arine pollutant: No	
Exceptions: Not		ERG Guide #	NOT applicable					
Section 15	Regulatory information	the enhydrous ferm	is on the Inventory P-t					
A chemical is considered Compone	d to be listed if the CAS number for	the anhydrous form		RCRA code	DSL	NDSL	CA Prop 65	
Boric acid	лк	Listed	CERLCA (RQ) 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							
							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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CHEMTREC 24 Hour Emergency Phone Number (800) 424-9300 For laboratory and industrial use only. Not for drug, food or household use.

LAMBDA DNA HindIII DIGEST Product Synonyms DNA Marker 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 mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear Chemicals. protective 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

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards no	ot otherwise classified (PHNOC) - Not	Known			
Section 3	Composition / information on	ingredients			
Chemical Name		CAS #	%	EINECS	
Lambda DNA HindI	III and non-hazardous ingredients	Mixture	100%	Mixture	

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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

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

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Particulates not otherwise classified	Not listed	TWA: 5 mg/m ³ respirable fraction	Not listed

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 chemi	cal properties					
	N/A g point: ~ 0°C (~ 32°F) [wa 100°C (212°F) [water]	Flammability Explosion lin Vapor pressu ater] Vapor density	rate (=1): <1 (solid/gas): N/A nits: Upper: N/A Loo ure (mm Hg): 14 [wate y (Air = 1): 0.7 [water sity (Specific gravity)): Complete.	er] 	Auto-ign Decomp Viscosity Molecula	coefficient: N/ ition temperatu osition temperaty y: N/A ar formula: Mixtu ar weight: Mixtu	u re: N/A ature: N/A :ture.
Section 10	Stability and reactiv	ity					
Chemical stabilit Conditions to av	t y: Stable oid: Excessive temperature		us polymerization: V	Vill not occur.			
Incompatible ma	terials: Strong oxidizers, ad	cids, bases, alkalies. Av	oid contact with metals	3.			
Hazardous deco	mposition products: Oxide	es of carbon, nitrogen ox	kides.				
Section 11	Toxicological inform	nation					
Germ cell mutag Carcinogenity: I NTP: No compon IARC: No compor OSHA: No compor Ca Prop 65: This Reproductive to:	ent of this product present al nent of this product present a onent of this product present product does not contain an kicity: Data not available	t levels greater than or e at levels greater than or a at levels greater than or	equal to 0.1% is identit equal to 0.1% is ident	ied as probable, pos ified as a carcinoger	ssible or confin n or potential c	med human card arcinogen by OS	8 9
STOT-repeated e Aspiration hazar Potential health Inhalation: Not ex Ingestion: May bo Skin: Not expecte Eyes: Contact wi Signs and sympp not available. Exc	pected to be a health hazar e harmful by ingestion. ed to be a health hazard. th eyes may cause irritation.	d. best of our knowledge th es to minimize potential h		nd toxicological prop	perties have no	t been thorough	nly investigated. Specific data is
STOT-repeated e Aspiration hazar Potential health Inhalation: Not ex Ingestion: May be Skin: Not expect Eyes: Contact wi Signs and sympt not available. Ex Additional inform Section 12	exposure: Data not available d: Data not available effects: kpected to be a health hazar e harmful by ingestion. ed to be a health hazard. th eyes may cause irritation. toms of exposure: To the barcise appropriate procedure nation: RTECS #: Data no Ecological informati	d. best of our knowledge th es to minimize potential h t available		nd toxicological prop	perties have no	t been thorough	nly investigated. Specific data is
STOT-repeated e Aspiration hazar Potential health Inhalation: Not ex- Ingestion: May be Skin: Not expect Eyes: Contact wi Signs and sympi not available. Ex- Additional inform Section 12 Toxicity to fish: Toxicity to digae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may	exposure: Data not available d: Data not available effects: xpected to be a health hazard ed to be a health hazard. th eyes may cause irritation. toms of exposure: To the bactise appropriate procedure nation: RTECS #: Data no Ecological informati No data available degradability: No data available fects: An environmental haz Disposal consideral guidelines are intended for be different. Dispose of i	d. best of our knowledge these to minimize potential h t available ion tebrates: No data available Bioaccumu PBT and vF zard cannot be excluded tions or the disposal of catal in accordance with all	able able PvB assessment: No I in the event of unprof	data available data available essional handling or hly. Federal regula	[.] disposal. ations may ap	pply to empty c	container. State and/or local
STOT-repeated e Aspiration hazar Potential health Inhalation: Not expecte Skin: Not expecte Eyes: Contact wi Signs and symp not available. Exc Additional inform Section 12 Toxicity to fish: Toxicity to dapher Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14	exposure: Data not available d: Data not available effects: spected to be a health hazard e harmful by ingestion. ed to be a health hazard. th eyes may cause irritation. toms of exposure: To the bercise appropriate procedure nation: RTECS #: Data no Ecological informati No data available hig and other aquatic inver : No data available degradability: No data available fects: An environmental haz Disposal considerat guidelines are intended fc be different. Dispose of i Transport informati	d. best of our knowledge thest of minimize potential hest to minimize potential hest to available ion tebrates: No data availate allable Bioaccumu PBT and vF zard cannot be excluded tions or the disposal of catal in accordance with all ion	able VB assessment: No d in the event of unprof log-size quantities of local, state and fede	data available data available essional handling or hly. Federal regula	[.] disposal. ations may ap	pply to empty c	container. State and/or local
STOT-repeated e Aspiration hazar Potential health Inhalation: Not expecte Skin: Not expecte Eyes: Contact wi Signs and symp not available. Exc Additional inform Section 12 Toxicity to fish: Toxicity to dapher Toxicity to algae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14	exposure: Data not available d: Data not available effects: opected to be a health hazard. the yes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. to be a health hazard. to be a pealth hazard. to data available degradability: No data available fects: An environmental haz Disposal consideration guidelines are intended for be different. Dispose of i Transport information r: Not applicable Not applicable	d. best of our knowledge these to minimize potential h t available ion tebrates: No data available Bioaccumu PBT and vF zard cannot be excluded tions or the disposal of catal in accordance with all	able VB assessment: No vb assessment: No d in the event of unprof log-size quantities or local, state and fede lot Regulated ot applicable	data available data available essional handling or hly. Federal regula	⁻ disposal. ations may ap contract with	oply to empty c a licensed che	container. State and/or local
STOT-repeated e Aspiration hazar Potential health Inhalation: Not es Ingestion: May b Skin: Not expecte Eyes: Contact wi Signs and symp not available. Exe Additional inform Section 12 Toxicity to fish: Toxicity to fish: Toxicity to dapher Toxicity to dapher Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA number Hazard class: Exceptions: N	exposure: Data not available d: Data not available effects: opected to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. toms of exposure: To the bercise appropriate procedure nation: RTECS #: Data no Ecological informati No data available degradability: No data available fects: An environmental ha: Disposal considerati guidelines are intended for be different. Dispose of i Transport informati r: Not applicable Not applicable Not applicable Not applicable Regulatory informati	d. best of our knowledge thest of minimize potential hest to minimize potential hest to available ion tebrates: No data available Bioaccumu PBT and vF zard cannot be excluded tions or the disposal of catal in accordance with all ion Shipping name: N Packing group: No 2020 ERG Guide # tion	able Idative potential: No of PVB assessment: No d in the event of unprofind log-size quantities or local, state and federic lot Regulated ot applicable Not applicable	lata available data available essional handling or nly. Federal regula eral regulations or	⁻ disposal. ations may ap contract with	oply to empty c a licensed che	container. State and/or local emical disposal agency.
STOT-repeated e Aspiration hazar Potential health Inhalation: Not ex- Ingestion: May b Skin: Not expecte Eyes: Contact wi Signs and symp not available. Exe Additional inform Section 12 Toxicity to fish: Toxicity to fish: Toxicity to dagae Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA numbe Hazard class: Exceptions: M Section 15 A chemical is consid	exposure: Data not available d: Data not available effects: cpected to be a health hazard. th eyes may cause irritation. to be a health hazard. th eyes may cause irritation. toms of exposure: To the bercise appropriate procedure nation: RTECS #: Data no Ecological informati No data available degradability: No data available fects: An environmental ha: Disposal consideration guidelines are intended for be different. Dispose of i Transport informati Not applicable Not applicable Not applicable Not applicable Regulatory informati	d. best of our knowledge thest of minimize potential hest to minimize potential hest to available ion tebrates: No data available Bioaccumu PBT and vF zard cannot be excluded tions or the disposal of catal in accordance with all ion Shipping name: N Packing group: No 2020 ERG Guide # tion ber for the anhydrous form	able Not applicable Not applicable is on the Inventory list.	data available data available essional handling or nly. Federal regula eral regulations or Reportable Qua	⁻ disposal. ations may ap contract with antity: No	oply to empty c a licensed che Ma	container. State and/or local emical disposal agency. arine pollutant: No
STOT-repeated e Aspiration hazar Potential health Inhalation: Not ex- Ingestion: May bb Skin: Not expecte Eyes: Contact wi Signs and symp not available. Exe Additional inform Section 12 Toxicity to fish: Toxicity to fish: Toxicity to dapher Toxicity to dapher Toxicity to dapher Persistence and Mobility in soil: Other adverse ef Section 13 These disposal regulations may Section 14 UN/NA number Hazard class: Exceptions: N	axposure: Data not available d: Data not available effects: spected to be a health hazard a harmful by ingestion. ad to be a health hazard. th eyes may cause irritation. toms of exposure: To the barcise appropriate procedure nation: RTECS #: Data no Ecological informati No data available nia and other aquatic inver No data available fects: An environmental haz Disposal considerati guidelines are intended fc be different. Dispose of if Transport informati r: Not applicable Not applicable Not applicable Regulatory informati rered to be listed if the CAS num	d. best of our knowledge thest of minimize potential hest to minimize potential hest to available ion tebrates: No data available Bioaccumu PBT and vF zard cannot be excluded tions or the disposal of catal in accordance with all ion Shipping name: N Packing group: No 2020 ERG Guide # tion	able Idative potential: No of PVB assessment: No d in the event of unprofind log-size quantities or local, state and federic lot Regulated ot applicable Not applicable	lata available data available essional handling or nly. Federal regula eral regulations or	⁻ disposal. ations may ap contract with	oply to empty c a licensed che	container. State and/or local emical disposal agency.

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

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 "Cutting edge science for the classroom"

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

Synonyms Sample 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. Supplemental information: Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Weap protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. Pictograms: None known GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required Precautionary statement: None required	Product	LAMBDA DNA	
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: None required	Synonyms	Sample 1	
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	Section 2	Hazards identification	
	to the Glob Chemicals. Signal word Pictograms Target orga GHS Classi GHS Label	ally Harmonized System (GHS) of Classification and Labeling of d: None required h: No symbol required h: None known fication: None required information: Hazard statement: None required	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

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

Section 3 Composition / information of	on ingredients			
Chemical Name	CAS #	%	EINECS	
Lambda DNA and non-hazardous ingredients	Mixture	100%	Mixture	
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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Particulates not otherwise classified	Not listed	TWA: 5 mg/m ³ respirable fraction	Not listed

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 chemi	ical properties					
Appearance: Clean Odor: No odor. Odor threshold: N pH: N/A Melting / Freezing Boiling point: ~ 10 Flash point: Not fla	/A point: ~ 0°C (~ 32°F) [wa)0°C (212°F) [water]	ater] Flammabilit Explosion li Vapor press Vapor densi Relative der	a rate (=1): <1 y (solid/gas): N/A mits: Upper: N/A L ure (mm Hg): 14 [wa ty (Air = 1): 0.7 [wate sity (Specific gravity s): Complete.	ter] r]	Auto-ig Decomp Viscosit Molecul	n coefficient: N// nition temperatur position tempera ty: N/A lar formula: Mixtu lar weight: Mixtu	re: N/A ture: N/A ure.
Section 10	Stability and reactive	/ity	· · ·				
Incompatible mate	Stable d: Excessive temperature rials: Strong oxidizers, a position products: Oxid	es which cause evapora cids, bases, alkalies. A	void contact with meta				
Section 11	Toxicological inform	notion					
Serious eye damag Respiratory or skin Germ cell mutagen ATP: No component IARC: No component OSHA: No component Ca Prop 65: This pro Reproductive toxic STOT-single exposs STOT-repeated exp Aspiration hazard: Potential health eff Inhalation: Not expected Eyes: Contact with of Signs and symptom not available. Exerct	ation: Data not available ge/irritation: Data not available ge/irritation: Data not available icity: Data not available to of this product present a at of this product present a of this product present a int of this product present a ity: Data not available ure: Data not available Data not available ects: ected to be a health hazard armful by ingestion. to be a health hazard. eyes may cause irritation.	ailable t available tt levels greater than or at levels greater than or t at levels gr	equal to 0.1% is iden r equal to 0.1% is iden e State of California t	ified as probable, po tififed as a carcinoge o cause cancer or re	essible or confir en or potential o productive toxi	rmed human carci carcinogen by OS icity.	
Section 12	Ecological informat						
Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu	and other aquatic invest lo data available gradability: No data available o data available cts: An environmental ha Disposal considera	ailable Bioaccum PBT and v azard cannot be exclude titions or the disposal of cata	ulative potential: No /PvB assessment: N d in the event of unpro alog-size quantities (o data available ofessional handling o only. Federal regul	lations may a		ontainer. State and/or local mical disposal agency.
Section 14	Transport informat	ion					
UN/NA number: Hazard class: N Exceptions: No	ot applicable t applicable	Shipping name: Packing group: N 2020 ERG Guide #	Not applicable	Reportable Qu	antity: No	Ма	rine pollutant: No
Section 15	Regulatory informa						
	ed to be listed if the CAS num		,			NDO	
Compon		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65 This product does not contain
All components in so	סוענוסח	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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Section	1
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Identification

by Aldon Corporation INNOVATING SCIENCE

221 Rochester Street Avon, NY 14414-9409 (585) 226-6177 "Cutting edge science for the classroom"

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

LAMBDA DNA Bstell DIGEST Product Synonyms Sample 4 / Sample 2 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 mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear Chemicals. protective 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

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	
Lambda DNA BsteII a	and non-hazardous ingredients	Mixture	100%	Mixture	
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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal prot	ection		
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
Exposure Linits.	Particulates not otherwise classified	Not listed	TWA: 5 mg/m ³ respirable fraction	Not listed

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

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

Section 9	Physical and chemical pro	perties					
Appearance: Clear Odor: No odor. Odor threshold: N pH: N/A Melting / Freezing Boiling point: ~ 10 Flash point: Not fla	/A point: ~ 0°C (~ 32°F) [water] 10°C (212°F) [water]	Flammabilit Explosion li Vapor press Vapor densi Relative der	y (solid/gas): N/A mits: Upper: N/A Lc ure (mm Hg): 14 [wai ty (Air = 1): 0.7 [wate nsity (Specific gravity s): Complete.	ier] r]	Auto-ig Decomp Viscosit Molecul	n coefficient: N/ nition temperatu position temperatu ty: N/A lar formula: Mixtu lar weight: Mixtu	ure: N/A nture: N/A ture.
Section 10	Stability and reactivity						
Incompatible mater	Stable d: Excessive temperatures which rials: Strong oxidizers. position products: Oxides of car	cause evapora	ous polymerization: tion.	Will not occur.			
Section 11	Toxicological information						
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: Not expected Eyes: Contact with Signs and sympton not available. Exerc Additional information	t of this product present at levels on to f this product present at levels ont of this product present at levels oduct does not contain any chemic sity: Data not available sure: Data not available Data not available fects: ected to be a health hazard. harmful by ingestion. to be a health hazard. eyes may cause irritation. ms of exposure: To the best of o cise appropriate procedures to min tion: RTECS #: Data not available	greater than or greater than or s greater than o cals known to th and knowledge t imize potential	equal to 0.1% is ident or equal to 0.1% is iden he State of California to he chemical, physical a	ified as probable, po tified as a carcinoge o cause cancer or re	ossible or confi en or potential productive toxi	rmed human carc carcinogen by OS icity.	SHA.
Section 12	Ecological information						
Toxicity to algae: N Persistence and de Mobility in soil: No Other adverse effect Section 13 These disposal gu	a and other aquatic invertebrate lo data available e gradability: No data available	Bioaccum PBT and v not be exclude sposal of cata	ulative potential: No /PvB assessment: No ed in the event of unpro alog-size quantities c	o data available fessional handling o only. Federal regul	lations may a		
UN/NA number: Hazard class: N Exceptions: No	Not applicable Shipp ot applicable Packi	ng group: N	Not Regulated Not applicable * Not applicable	Reportable Qu	antity: No	Ma	arine pollutant: No
Section 15	Regulatory information						
	ed to be listed if the CAS number for th		-				
Compon		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components in so	blution	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

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

of California to cause cancer or reproductive toxicity.

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Section 1

Identification

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INNOVATING SCIENCE®

"Cutting edge science for the classroom"

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

Synonyms Sample 3 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. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.
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	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
to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals. Signal word: None required Pictograms: No symbol required	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
GHS Classification: None required GHS Label information: Hazard statement: None required Precautionary statement: None required	
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 i	ngredients			
Chemical Name		CAS #	%	EINECS	
Lambda DNA Eco	RI and non-hazardous ingredients	Mixture	100%	Mixture	
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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
	Particulates not otherwise classified	Not listed	TWA: 5 mg/m ³ respirable fraction	Not listed			

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.

approvod roopilato	•						
Section 9	Physical and chemical p	roperties					
	//A point: ~ 0°C (~ 32°F) [water] 00°C (212°F) [water]	Flammabilit Explosion li Vapor press Vapor densi Relative der	n rate (=1): <1 y (solid/gas): N/A mits: Upper: N/A Lc sure (mm Hg): 14 [wai ity (Air = 1): 0.7 [wate sity (Specific gravity ss): Complete.	ier] r]	Partition Decomp Viscosit Molecul	nition temperatu n coefficient: N/ position tempera cy: N/A ar formula: Mixtu ar weight: Mixtu	′Α a ture: N/Α ture.
Section 10	Stability and reactivity						
Chemical stability Conditions to avo	: Stable d: Excessive temperatures whi		ous polymerization:	Will not occur.			
Incompatible mate	rials: Strong oxidizers, acids, I	bases, alkalies. A	void contact with metal	S.			
Hazardous decom	position products: Oxides of	carbon, nitrogen c	oxides.				
Section 11	Toxicological informatio	n					
IARC: No compone OSHA: No compone OSHA: No compone Ca Prop 65: This pi Reproductive toxi STOT-single expo STOT-repeated exx Aspiration hazard Potential health et Inhalation: Not exp Ingestion: May be Skin: Not expected Eyes: Contact with Signs and sympto not available. Exer Additional informations	to f this product present at level nt of this product present at level ent of this product present at level oduct does not contain any che city: Data not available sure: Data not available posure: Data not available to Data not available fects: ected to be a health hazard. harmful by ingestion. to be a health hazard. eyes may cause irritation. ms of exposure: To the best of cise appropriate procedures to r otion: RTECS #: Data not avail Ecological information	els greater than or rels greater than c micals known to th f our knowledge th ninimize potential	equal to 0.1% is identi or equal to 0.1% is iden ne State of California to he chemical, physical a	fied as probable, po tified as a carcinoge o cause cancer or re	ossible or confir en or potential c productive toxi	med human carc carcinogen by OS city.	SHA.
Toxicity to algae: Persistence and d Mobility in soil: N	a and other aquatic invertebra No data available egradability: No data available	e Bioaccum PBT and v cannot be exclude	ulative potential: No /PvB assessment: No	o data available	or disposal.		
These disposal g	uidelines are intended for the	disposal of cata					
	e different. Dispose of in ac						
	Transport information		Not Dogulated				
UN/NA number: Hazard class: N Exceptions: N	lot applicable Pac	pping name: king group: 1 0 FRG Guide #	-	Reportable Qu	iantity: No	Ma	arine pollutant: No
Section 15	Regulatory information						
	ed to be listed if the CAS number fo	r the anhydrous form	n is on the Inventory list.				
Compo		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components in s	olution	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the St of California to cause cancer o

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

of California to cause cancer or reproductive toxicity.

GENERAL STORAGE CODE GREEN

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Section 1

Identification

INNOVATING SCIENCE

"Cutting edge science for the classroom"

By Aldon Corporation 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	LAMBDA DNA BsteII DIGEST	
Synonyms	Sample 4 / Sample 2	
Section 2	Hazards identification	
to the Glob Chemicals. Signal word Pictograms	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	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.
GHS Label Precaution	ification: None required information: Hazard statement: None required ary statement: None required	
Health haza	<u>ot otherwise classified:</u> ards not otherwise classified (HHNOC) - Not Known zards not otherwise classified (PHNOC) - Not Known	I
Section 3	Composition / information on ingredients	

Section 3 Composition / Information o	n ingreaients			
Chemical Name	CAS #	%	EINECS	
Lambda DNA BsteII and non-hazardous ingredients	Mixture	100%	Mixture	
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: MAY CAUSE MILD 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 MILD IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire fighting measures

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

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

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

Section 6 Accidental release measures

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

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

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

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

Section 8	Exposure controls / personal protection						
Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)			
	Particulates not otherwise classified	Not listed	TWA: 5 mg/m ³ respirable fraction	Not listed			

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 chemi	ical prope	erties					
	I/A point: ∼ 0°C (∼ 32°F) [w 00°C (212°F) [water]	ater]	Flammability Explosion lin Vapor presso Vapor densit	rate (=1): < 1 (solid/gas): N/A nits: Upper: N/A Lc rre (mm Hg): 14 [wal y (Air = 1): 0.7 [wate sity (Specific gravity): Complete.	er] ⁻]	Auto-ig Decomp Viscosit Molecul	n coefficient: N/, nition temperatu position tempera ty: N/A lar formula: Mixtu lar weight: Mixtu	re: N/A ture: N/A ure.
Section 10	Stability and reactive	vity						
Chemical stability Conditions to avoi	Stable d: Excessive temperature	es which c		us polymerization:	Will not occur.			
Incompatible mate	rials: Strong oxidizers.							
Hazardous decom	position products: Oxid	les of carbo	on.					
Section 11	Toxicological inform	mation						
Germ cell mutage Carcinogenity: Da NTP: No componer IARC: No componer OSHA: No compone Ca Prop 65: This pr Reproductive toxi STOT-single expo STOT-repeated ex Aspiration hazard Potential health ef Inhalation: Not exp Ingestion: May be Skin: Not expected Eyes: Contact with Signs and sympto not available. Exer Additional information	to f this product present a nt of this product present ent of this product present oduct does not contain ar city: Data not available sure: Data not available fects: ected to be a health haza harmful by ingestion. to be a health hazard. eyes may cause irritation ms of exposure: To the cise appropriate procedur tition: RTECS #: Data not	e at levels gr t at levels g ny chemica ole rd. best of our res to minir ot available	eater than or e reater than or greater than or als known to th nisk nowledge th nize potential l	equal to 0.1% is ident equal to 0.1% is iden e State of California to e chemical, physical a	fied as probable, po tified as a carcinoge o cause cancer or re	ossible or confi en or potential oproductive toxi	rmed human carc carcinogen by OS icity.	8,
Section 12	Ecological informat	tion						
Toxicity to algae: I Persistence and d Mobility in soil: N Other adverse effe	a and other aquatic inve No data available egradability: No data ava o data available cts: An environmental ha	ailable azard cann	Bioaccumu PBT and vi	Ilative potential: No PvB assessment: No	o data available	or disposal.		
Section 13	Disposal considera							
regulations may b	e different. Dispose of	in accord						ontainer. State and/or local mical disposal agency.
Section 14	Transport informat							
UN/NA number: Hazard class: N			•	lot Regulated ot applicable	Reportable Qu	antity: No	Ма	rine pollutant: No
Exceptions: No				Not applicable	ivehoi table Qu	antity. NO	IVIa	
Section 15	Regulatory informa							
	ed to be listed if the CAS nun		anhydrous form	is on the Inventory list.				
Compor	ient		TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
All components in s	olution		Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State

Section 16 Other information

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any chemicals known to the State of California to cause cancer or reproductive toxicity.