

16 April 2018

Kit Components

Product Code	Description
30028-1	Bst DNA Polymerase, Exonuclease Minus, 50,000 U per mL

Components

Bst DNA Polymerase, Exonuclease Minus	F93636-1
10X DNA Polymerase Buffer B	F98637-1



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 05/23/2018 Version[.] A

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier 1.1.

Product name	:	Bst DNA Polymerase, Exo-
Product form	:	Mixture
Product code	:	F93636-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Laboratory chemical.

Details of the supplier of the safety data sheet 1.3.

Lucigen Corporation 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011 Fax: (608) 831-9012 E-mail: techserv@lucigen.com

1.4. **Emergency telephone number**

Emergency number

: 1-888-575-9695 (Lucigen: Monday-Friday, 8:00AM-5:00PM)

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

GHS-US classification Not classified.

2.2. Label elements

GHS-US labelling

No labeling applicable.

Other hazards 2.3.

None.

2.4. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixture

Name	Product identifier	%
Glycerol, CAS # 56-85-1 EC# 200-289-5 Chemical Formula: C ₃ H ₈ O ₃ Molecular Weight: 92.09 g/mol Synonyms: 1,2,3-Propanetriol, Glycerin	Ingredient in product.	50%

SECTION 4: First aid measures

4.1. Description of first aid measures	
First-aid measures general	 If exposed or concerned, consult a physician. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.
First-aid measures after inhalation	: IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15 minutes with tepid water. Consult a physician.
First-aid measures after eye contact	: IF IN EYES: Immediately flush with plenty of tepid water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Consult a physician.
First-aid measures after ingestion	: IF SWALLOWED: Rinse mouth thoroughly and consult a physician. Do not induce vomiting.
4.2. Most important symptoms and effect	cts, both acute and delayed
Symptoms/injuries	: Not expected to present a significant acute hazard under anticipated conditions of normal use.
Symptoms/injuries after inhalation	: May cause upper respiratory irratation.
Symptoms/injuries after skin contact	: Direct contact will cause skin irritation.

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O man ta sa l'actual a stran a sa ta st	Discrete sector fuelle sector indication
Symptoms/injuries after eye contact	: Direct contact will cause eye irritation.
Symptoms/injuries after ingestion	: Will cause gastrointestinal irritation.
	-
4.2 Indication of any immediate modi	and attention and appoint treatment needed

Indication of any immediate medical attention and special treatment needed 4.3.

No additional information available

SECTION 5: Firefighting measures				
5.1. Extinguishing media				
Suitable extinguishing media	: Water spray, alcohol resistant foam, dry chemical, carbon dioxide, or appropriate foam.			
5.2. Special hazards arising from	m the substance or mixture			
Fire hazard	: Emits toxic fumes under fire conditions.			
Explosion hazard	: Emits toxic fumes under fire conditions.			
Reactivity	: No dangerous reactions known under normal conditions of use.			
5.3. Advice for firefighters				
Firefighting instructions	: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.			
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.			
SECTION 6: Accidental release measures				
6.1. Personal precautions, protective equipment and emergency procedures				
General measures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).			

6.1.1. Protectiv	For non-emergency personnel /e equipment	: W	lear Personal Protective Equipment as described in Section 8.
6.1.2. Protectiv	For emergency responders /e equipment		/ear suitable protective clothing, gloves, respirator, and eye or face protection. For further formation refer to section 8: "Exposure controls/personal protection".
6.2.	Environmental precautions		

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

••••			· · · · · · · · · · · · · · · · · · ·
For con	tainment	:	Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams.
Method	s for cleaning up	:	Soak up spills with inert absorbants, such as sand or vermiculite as soon as possible. Place in closed waste container for disposal. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.
6.4.	Reference to other sections		

No additional information available

SECTION 7: Handling and storage		
7.1.	Precautions for safe handling	
Precau	tions for safe handling	: Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water after handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.
7.2.	Conditions for safe storage, inclu	ding any incompatibilities

Storage conditions

: Store in a -20°C freezer without a defrost cycle.

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m3	USA. OSHA – TABLE Z-1 Limits for Air Contaminants – 1910.1000
		TWA	10 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract Irritation		
		TWA	5 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m3	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

Hand protection

Eye protection Skin and body protection Respiratory protection

- : Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash station should be available. Avoid prolonged or repeated exposure.

: Gloves. Protective goggles. Laboratory Coat.

- : Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves for this specific application can be recommended by the glove supplier. Suggested glove materials are: Neoprene, Nitrile.
- : Safety goggles should be worn when working with mixture. Avoid direct contact with eyes.
- : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
- : Use NIOSH/MSHA-approved dust/particulate respirator if exposure symptoms develop. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Do not breathe in vapour, mist, or dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties						
Physical state	:	Liquid				
Color	:	No data available				
Odor	:	No data available				
Odor Threshold	:	No data available				
рН	:	No data available				
Melting point	:	No data available				
Freezing point	:	No data available				
Boiling point	:	No data available				
Flash point	:	No data available				
Relative evaporation rate	:	No data available				
Flammability (solid, gas)	:	No data available				
Vapour pressure	:	No data available				
Relative vapour density at 20 °C	:	No data available				
Relative density	:	No data available				
Solubility in Water	:	No data available				
Log Pow	:	No data available				
Log Kow	:	No data available				
Auto-ignition temperature	:	No data available				
Decomposition temperature	:	No data available				
Viscosity, kinematic	:	No data available				
Viscosity, dynamic	:	No data available				
Explosive properties	:	No data available				

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Oxidising properties

Explosive limits

: No data available : No data available

9.2. Other information

No additional information.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

10.3. Possibility of hazardous reactions

None known. Hazardous polymerization does not occur.

10.4. Conditions to avoid

None known.

10.5. Incompatible materials

Strong oxidizing agents, strong bases.

10.6. Hazardous decomposition products

Carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	:	No data available
Skin corrosion/irritation	:	No data available
Serious eye damage/irritation	:	No data available
Respiratory or skin sensitisation	:	No data available
Germ cell mutagenicity	:	No data available
Carcinogenicity	:	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.
		ACGIH – No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
		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.
		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	:	No data available
Specific target organ toxicity (single exposure)	:	No data available
Specific target organ toxicity (repeated exposure)	:	No data available
Aspiration hazard	:	No data available
Symptoms/injuries after inhalation	:	May cause upper respiratory irratation. May cause headaches.
Symptoms/injuries after skin contact	:	Direct contact with skin will cause skin irritation.
Symptoms/injuries after eye contact	:	Direct contact will cause eye irritation.
Symptoms/injuries after ingestion	:	Will cause gastrointestinal distress.
Additional Information	:	The chemical, physical, and toxicological properties have not been thoroughly investigated. Repeated or prolonged exposure may cause headache, vomitting, and nausea. May cause kidney irregularities (based on human evidence).

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

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Mobility in soil 12.4.

No additional information available

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Product should not be discharged to surface waters without a NPDES permit.
Waste disposal recommendations	: Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid release to the environment.

: No supplementary information available.

SECTION 14: Transport information

In accordance with DOT

Not hazardous for transport Additional information

Other information

Transport by sea

No additional information available

Air transport

No additional information available

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 302 Components

No chemicals in this solution are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards

Chronic Health Hazard

SARA 313

This materials does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

15.2. International regulations

None.

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

Massachusetts Right To Know Components Glycerol, CAS 56-81-5

New Jersey Right to Know Hazardous Substance List Glycerol, CAS 56-81-5

Pennsylvania Right to Know List Glycerol, CAS 56-81-5

SECTION 16: Other information

Indication of changes	: Revision A: New SDS.
Revision date	: 05/23/2018

: Author: Lucigen Corporation

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NFPA health hazard	: 0 – Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible materials.
NFPA fire hazard	: 1 – Materials that require considerable preheating, under all ambient temperature condtision, before ignition and combustion can occur. Flash point at or above 93.3°C.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 0
Flammability	: 1
Physical Hazard	: 0
Personal Protection	:

This information is disclosed to the best of Lucigen's knowledge. This document does not constitute a contractual relationship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.



Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision date: 05/22/2018 Version: A

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier 1.1.

Product name	: DNA Polymerase Buffer B 10X
Product form	: Mixture
Product code	: F98637-1

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

: Laboratory chemical.

Details of the supplier of the safety data sheet 1.3.

Lucigen Corporation 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011 Fax: (608) 831-9012 E-mail: techserv@lucigen.com

1.4. **Emergency telephone number**

Emergency number

: 1-888-575-9695 (Lucigen: Monday-Friday, 8:00AM-5:00PM)

SECTION 2: Hazards identification

Classification of the substance or mixture 2.1.

GHS-US classification

Not classified.

2.2. Label elements

GHS-US labelling

No labeling applicable.

Other hazards 2.3.

None.

2.4. Unknown acute toxicity (GHS-US)

No data available.

SECTION 3: Composition/information on ingredients

3.2. Mixture

Name	Product identifier	%
TRIS HCI, CAS # 1185-53-1 EC# 214-684-5 Chemical Formula: C ₄ H ₁₁ NO ₃ *HCI Molecular Weight: 157.60 g/mol Synonyms: TRIS hydrochloride, Tris(hydroxymethyl)aminomethanehydrochloride, 2-Amino-2- (hydroxymethyl)propane-1,3-diol hydrochloride	Ingredient in product.	3.2%
Ammonium Sulfate, CAS # 7783-20-2 EC# 231-984-1 Chemical Formula: H ₈ N ₂ O ₄ S Molecular Weight: 132.14 g/mol Synonyms: Ammonium sulphate	Ingredient in product.	1.3%
Triton X-100Chemical Formula: $(C_2H_4O)_NC_{14}H_{22}O$ Synonyms: t-Octylphenoxypolyethoxyethanol, 4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol, Polyethyleneglycol tert-octylphenyl ether• $\alpha - [(1,1,3,3-Tetramethylbutyl)phenyl]-\omega-hydroxy-poly(oxy-1,2-ethanediyl), CAS # 9036-19-5, AcuteTox 4; Eye Dam. 1; Aquatic Acute 2; AquaticChronic 2, H302, H318, H411• Polyethylene glycol, Avg MW 8,000, CAS # 25322-68-3, EC# 500-038-2$	Ingredient in product.	1.0% • ≥90- ≤100% • ≥1- ≤5%

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Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : If exposed or concerned, consult a physician. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person. First-aid measures after inhalation : IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing. If not breathing, give artificial respiration. Consult a physician. First-aid measures after skin contact IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15 minutes with tepid water. Consult a physician. : IF IN EYES: Immediately flush with plenty of tepid water for at least 15 minutes. Remove First-aid measures after eye contact contact lenses if present and easy to do so. Continue rinsing. Consult a physician. First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly and consult a physician. Do not induce vomiting. 4.2. Most important symptoms and effects, both acute and delayed : Not expected to present a significant acute hazard under anticipated conditions of normal use. Symptoms/injuries : May cause irritation to respiratory tract. Symptoms/injuries after inhalation Symptoms/injuries after skin contact : May cause skin irritation. Symptoms/injuries after eye contact : May cause eye irritation. Symptoms/injuries after ingestion : May cause gastrointestinal distress, nausea, and diarrhea.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information.

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, carbon dioxide, dry chemical powder, alcohol-resistant foam, or appropriate foam.
5.2. Special hazards arising from the s	ubstance or mixture
Fire hazard	: Emits toxic fumes under fire conditions (Nitrogen oxides, Sulphur oxides).
Explosion hazard	: No data available.
Reactivity	: Can react with oxidizing agents.
5.3. Advice for firefighters	
Firefighting instructions	: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, pre	otective equipment and emergency procedures
General measures	: Ventilate area. Evacuate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).
6.1.1. For non-emergency perso	onnel
Protective equipment	: Wear Personal Protective Equipment as described in Section 8.
6.1.2. For emergency responde	rs
Protective equipment	: Wear suitable protective clothing, gloves, respirator, and eye or face protection. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precaution	ns
Prevent entry to sewers and public w	aters. Notify authorities if liquid enters sewers or public waters. Do not release to the environment.
6.3. Methods and material for	containment and cleaning up

For containment : Contain any spills with dikes or inert absorbents (e.g., sand or vermiculite) to prevent migration and entry into sewers or streams. Methods for cleaning up : Soak up spills with inert absorbants, such as sand or vermiculite as soon as possible. Place in closed waste container for disposal. This material and its container must be disposed of in a safe way, and as per local, state, and federal legislation.

6.4. Reference to other sections

No additional information available

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Do not handle until all safety precautions have been read and understood. Wear recommended personal protective equipment. Wash hands and other exposed areas with mild soap and water after handling material, leaving the laboratory, before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a -20°C freezer without a defrost cycle.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limits.

8.2. Exposure controls

Appropriate engineering controls

Personal protective equipment

ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Ensure adequate ventilation, especially in confined areas. Emergency safety shower and eye wash station should be available. Avoid prolonged or repeated exposure.
: Gloves. Protective goggles. Laboratory Coat.

: Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust



Hand protection

Eye protection

Skin and body protection Respiratory protection

: Use gloves chemically resistant to this material when prolonged or repeated contact could
occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suitable gloves
for this specific application can be recommended by the glove supplier. Suggested glove
materials are: Neoprene Nitrile

- : Safety goggles should be worn when working with mixture. Avoid direct contact with eyes.
- : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.
- : Use NIOSH/MSHA-approved dust/particulate respirator if exposure symptoms develop. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. Do not breathe in vapour, mist, or dust.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and c	chemical properties
Physical state	: Liquid
Color	: No data available
Odor	: No data available
Odor Threshold	: No data available
рН	: No data available
Melting point	: No data available
Freezing point (50% aquesous solution)	: No data available
Boiling point	: No data available
Flash point	: No data available
Relative evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility in Water	: No data available
Log Pow	: No data available
Log Kow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Explosive limits

: No data available

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No dangerous reactions known under normal conditions of use.

10.2. **Chemical stability**

Stable under use and storage conditions as recommended in section 7.

Possibility of hazardous reactions 10.3.

None known.

Conditions to avoid 10.4.

No data available.

Incompatible materials 10.5.

Oxidizing agents, bases, strong acids.

10.6. Hazardous decomposition products

Nitrogen oxides, Sulphur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	No data available	
Skin corrosion/irritation	: No data available	
Serious eye damage/irritation	: No data available	
Respiratory or skin sensitisation	: No data available	
Germ cell mutagenicity	: No data available	
Carcinogenicity	: 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.	
	ACGIH – No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.	
	NTP – No component of this product present at levels greater than or equal to 0.1% is ide as a known or anticipated carcinogen by NTP.	ntified
	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	No data available	
Specific target organ toxicity (single exposure)	No data available	
Specific target organ toxicity (repeated exposure)	No data available	
Aspiration hazard	No data available	
Symptoms/injuries after inhalation	: May cause irritation to respiratory tract.	
Symptoms/injuries after skin contact	: May cause skin irritation.	
Symptoms/injuries after eye contact	: May cause eye irritation.	
Symptoms/injuries after ingestion	: May cause gastrointestinal distress, nausea, and diarrhea.	
Additional Information	: RTECS : Not available. To the best of our knowledge, the chemical, physical, and toxicological properties have not	it

been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

No additional information available

12.3. **Bioaccumulative potential**

No additional information available

12.4. Mobility in soil

No additional information available

Safety Data Sheet

Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants. Product should not be discharged to surface waters without a NPDES permit.
Waste disposal recommendations	 Dispose in a safe manner in accordance with local, state, and federal regulations. Avoid release to the environment.

SECTION 14: Transport information

DOT

Not dangerous goods

IMDG Not dangerous goods

ΙΑΤΑ

Not dangerous goods

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 304 Extremely Hazardous Substances Reportable Quantity

This product does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards

Acute Health Hazard, Chronic Health Hazard

SARA 302

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313

Ammonium Sulphate, CAS 7783-20-2

15.2. International regulations.

None.

15.3. US State regulations

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm.

Massachusetts Right To Know Components

Ammonium Sulphate, CAS 7783-20-2

New Jersey Right to Know Hazardous Substance List

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride, CAS 1185-53-1 Ammonium Sulphate, CAS 7783-20-2 α -[(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxy-poly(oxy-1,2-ethanediyl), CAS # 9036-19-5 Polyethylene glycol, AVG MW 8,000, CAS 25322-68-3

Pennsylvania Right to Know List

2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride, CAS 1185-53-1 Ammonium Sulphate, CAS 7783-20-2 α -[(1,1,3,3-Tetramethylbutyl)phenyl]- ω -hydroxy-poly(oxy-1,2-ethanediyl), CAS # 9036-19-5 Polyethylene glycol, AVG MW 8,000, CAS 25322-68-3

SECTION 16: Other information

Indication of changes	: Revision A: New SDS.
Revision date	: 05/22/2018
Other information	: Author: Lucigen Corporation

Safety Data Sheet Prepared according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

NFPA health hazard	: 1 – Exposure would cause irritation with only minor residual injury.
NFPA fire hazard	: 0 – Material that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone and sand.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1
Flammability	: 0
Physical Hazard	: 0
Personal Protection	:

This information is disclosed to the best of Lucigen's knowledge. This document does not constitute a contractual relationship with product end users or handlers with respect to the possible presence of hazards in this item. Disposal should be in accordance with applicable regional, national and local laws and regulations.