

16 April 2018

Kit Components

Product Code	Description
30027-0, 30027-1, 30027-2	Bst DNA Polymerase, Exonuclease Minus

Components

Bst DNA Polymerase, Exonuclease Minus	F93635-0, F93635-1
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

1.1. Product identifier

Product name : Bst DNA Polymerase

Product form : Mixture

Product code : F93635-0, F93635-1

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

Use of the substance/mixture : Laboratory chemical.

1.3. Details of the supplier of the safety data sheet

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

2.1. Classification of the substance or mixture

GHS-US classification

Not classified.

2.2. Label elements

GHS-US labelling

No labeling applicable.

2.3. Other hazards

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	Ingredient in product.	50%
Chemical Formula: C ₃ H ₈ O ₃		
Molecular Weight: 92.09 g/mol		
Synonyms: 1.2.3-Propanetriol, Glycerin		

SECTION 4: First aid measures

First-aid measures after eye contact

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

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

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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Symptoms/injuries after eye contact : Direct contact will cause eye irritation. Symptoms/injuries after ingestion : Will cause gastrointestinal irritation.

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

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 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. For non-emergency personnel

Protective equipment : Wear Personal Protective Equipment as described in Section 8.

6.1.2. For emergency responders

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 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 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

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.

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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

: 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.

Personal protective equipment

: Gloves. Protective goggles. Laboratory Coat.







Hand 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.

Eye protection

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.

Skin and body protection Respiratory protection

Decomposition temperature Viscosity, kinematic

Viscosity, dynamic Explosive properties Wear long sleeves, and chemically impervious PPE/coverails 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

Liquid Physical state No data available Color No data available Odor Odor Threshold No data available No data available pΗ Melting point No data available Freezing point No data available No data available **Boiling point** 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 No data available Solubility in Water Log Pow No data available No data available Log Kow Auto-ignition temperature No data available

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No data available

No data available

No data available

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Oxidising properties : No data available Explosive limits : 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.

 $\ensuremath{\mathsf{OSHA}}-\ensuremath{\mathsf{No}}$ 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 : No data available

exposure)

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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12.4. Mobility in soil

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.

SECTION 14: Transport information

In accordance with DOT

Not hazardous for transport

Additional information

Other information : No supplementary information available.

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

Other information : Author: Lucigen Corporation

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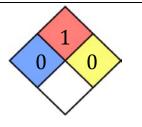
NFPA health hazard : 0 - Poses no health hazard, no precautions necessary and would offer no hazard beyond that of ordinary combustible

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.

: 0 - Normally stable, even under fire exposure conditions, NFPA reactivity

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.

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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

1.1. Product identifier

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.

1.3. Details of the supplier of the safety data sheet

Lucigen Corporation 2905 Parmenter Street Middleton, WI 53562 U.S.A. Phone: (608) 831-9011

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

2.1. Classification of the substance or mixture

GHS-US classification

Not classified.

2.2. Label elements

GHS-US labelling

No labeling applicable.

2.3. Other hazards

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-100 Chemical Formula: (C ₂ H ₄ O) _N C ₁₄ H ₂₂ O Synonyms: t-Octylphenoxypolyethoxyethanol, 4-(1,1,3,3- Tetramethylbutyl)phenyl-polyethylene glycol, Polyethylene glycol <i>tert</i> -octylphenyl ether • α-[(1,1,3,3-Tetramethylbutyl)phenyl]-ω-hydroxy- poly(oxy-1,2-ethanediyl), CAS # 9036-19-5, Acute Tox 4; Eye Dam. 1; Aquatic Acute 2; Aquatic Chronic 2, H302, H318, H411	Ingredient in product.	1.0% • ≥90- ≤100%
 Polyethylene glycol, Avg MW 8,000, CAS # 25322- 68-3, EC# 500-038-2 		• <u>≥</u> 1- <u><</u> 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

erson.

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 effects, 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 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.

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 substance 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, 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. For non-emergency personnel

Protective equipment : Wear Personal Protective Equipment as described in Section 8.

6.1.2. For emergency responders

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 precautions

Prevent entry to sewers and public waters. 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

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SECTION 7: Handling and storage

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

: 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.

Personal protective equipment : Gloves. Protective goggles. Laboratory Coat.







Hand 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.

Eye protection

: 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.

Skin and body protection Respiratory protection

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

Information on basic physical and chemical properties

Physical state : Liquid Color : No data available : No data available Odor Odor Threshold : No data available pΗ : No data available : No data available Melting point Freezing point (50% aquesous solution) : No data available Boiling point : No data available : No data available Flash point Relative evaporation rate : No data available Flammability (solid, gas) : No data available : No data available Vapour pressure 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 : No data available Viscosity, kinematic Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available

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Explosive limits : No data available

Other information 9.2.

None.

SECTION 10: Stability and reactivity

Reactivity 10.1.

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.

10.5. Incompatible materials

Oxidizing agents, bases, strong acids.

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

IARC - No component of this product present at levels greater than or equal to 0.1% is Carcinogenicity

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 Specific target organ toxicity (single exposure) : No data available Specific target organ toxicity (repeated : No data available

exposure)

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

been thoroughly investigated.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

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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

IATA

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

 $\alpha\hbox{-[(1,1,3,3-Tetramethylbutyl)phenyl]-}\omega\hbox{-hydroxy-poly(oxy-1,2-ethanediyl), CAS \# 9036-19-5}$

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

 $\alpha\hbox{-[(1,1,3,3-Tetramethylbutyl)phenyl]-}\omega\hbox{-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

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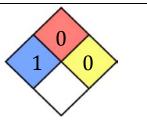
NFPA health hazard : 1 - Exposure would cause irritation with only minor residual injury.

: $0-Material\ that\ will\ not\ burn\ under\ typical\ fire\ conditions,$ NFPA fire hazard 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 : 0 Physical Hazard 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.

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