

26 July 2017

Kit Components

Product Code	Description
DB0715K	Baseline-ZERO™ DNase

Components

Baseline-ZERO™ DNase
10X Reaction Buffer
10X Stop Solution



Safety Data Sheet

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

Revision date: 07/25/2017 Version: X.0

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

1.1. Product identifier

Product name : Baseline-Zero[™] DNase

Product form : Mixture

Product code : Baseline-Zero[™] DNase is a component in the Baseline-Zero[™] DNase Product (DB0711K,

DB0715K).

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 labelling applicable.

2.3. Other hazards

Irritant to eyes and skin. Target organs are kidneys.

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: C₃H ₈ O₃ Molecular Weight: 92.09 g/mol Synonyms: Glycerin, 1,2,3-Propanetril	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 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.

07/25/2017 Baseline-Zero™ DNase. Page 1

Safety Data Sheet

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

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May 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, carbon dioxide, dry chemical powder, 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 at -20°C in a freezer without a defrost cycle.

07/25/2017 Baseline-Zero[™] DNase. 2/6

Safety Data Sheet

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

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/3	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

Respiratory protection

Oxidising properties

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

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.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

 Use NIOSH/MSHA-approved dust/particulate respirator as appropriate. 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, viscous and colorless

Color : Colorless

Odor : No data available Odor Threshold : No data available : No data available pΗ No data available Melting point Freezing point (50% aquesous solution) No data available No data available **Boiling point** Flash point No data available : No data available Relative evaporation rate 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 : No data available Viscosity, dynamic Explosive properties No data available

07/25/2017 Baseline-Zero™ DNase. 3/6

: 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

Reactivity 10.1.

No dangerous reactions known under normal conditions of use.

Chemical stability 10.2.

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

Possibility of hazardous reactions 10.3.

None known. Hazardous polymerization does not occur.

Conditions to avoid 10.4.

None known.

10.5. Incompatible materials

Strong oxidizing agents, strong bases.

10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: No data available Acute toxicity Skin corrosion/irritation : No data available : No data available Serious eye damage/irritation 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

dientified as probablye, 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 anticpated carcinogen by NTP.

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

identified as a carcinoen 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 : May cause skin irritation.

Symptoms/injuries after eye contact Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion May cause gastrointestinal irritation.

Additional Information RTECS: MA8050000. Prolonged exposure may cause nausea, vomitting, and headache.

Kidneys may be affected.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

Persistence and degradability 12.2.

No additional information available

12.3. Bioaccumulative potential

No additional information available

Mobility in soil

No additional information available

07/25/2017 Baseline-Zero[™] DNase 4/6

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 hazardous for transport

IMDG

No additional information available

IATA

No additional information available

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

Chronic Health Hazard

SARA 302

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

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

European Union Directive 67/548/EEC: Irritant R36/38, irritant to eyes and skin. S26, in the case of eye contact, rinse immediately with plenty of water and consult a physician. S36, wear appropriate personal protective equipment.

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

Glycercol, CAS 56-81-5

New Jersey Right to Know Hazardous Substance List

Glycerol, CAS 56-81-5

Pennsylvania Right to Know List

Glycercol, CAS 56-81-5

SECTION 16: Other information

Indication of changes : Revision X.0: Updated format.

Revision date : 07/25/2017 Other information : Author:

07/25/2017 Baseline-Zero[™] DNase. 5/6

Safety Data Sheet

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

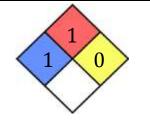
NFPA health hazard : 1 – Exposure will cause irriation with only minor residual injury.

NFPA fire hazard

: 1 – Materials that require considerable preheating, under ambient temperature conditions, before ignition and combustion can occur. Flash point is at or above 93.3°C.

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

and are not reactive with water.



HMIS III Rating

NFPA reactivity

Health: 1Flammability: 1Physical Hazard: 0Personal 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.

07/25/2017 Baseline-Zero[™] DNase. 6/6



Safety Data Sheet

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

Revision date: 07/25/2017 Version: X 0

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

1.1. **Product identifier**

: 10X Baseline-ZERO™ DNase Reaction Buffer Product name

Product form

10X Baseline-ZERO™ DNase Reaction Buffer is a component in the Baseline-ZERO™ DNase Product code

Product (DB0711K, DB0715K).

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

Lucigen Corporation 2905 Parmenter Street Middleton, WI 53562 U.S.A.

Phone: (608) 831-9011 Fax: (608) 831-9012

E-mail: techserv@lucigen.com

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

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

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	Ingredient in product.	1.6%
EC# 214-684-5 Chemical Formula: C ₄ H ₁₁ NO ₃ *HCL		
Molecular Weight: 157.60 g/mol		
Synonyms: Tris hydrochloride, Tris(hydroxymethyl)aminomethanehydrochloride		
rns(nydroxymethyr)aminomethanenydrochionde		

No ingredients are hazardous according to OSHA criteria. No components need to be disclosed according to the applicable 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

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.

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15 First-aid measures after skin contact 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.

> : IF SWALLOWED: Never give anything by mouth to an unconscious person. Obtain medical assistance. Do NOT induce vomiting unless directed by medical personnel. If conscious and

alter, rinse mouth and drink 2-4 cupfuls of water. Wash mouth out with water.

First-aid measures after ingestion

Safety Data Sheet

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

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 : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause irritation of the digestive tract.

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

No data available.

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.

Explosion hazard : No data available. Reactivity : No data available.

5.3. Advice for firefighters

Firefighting instructions : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin

and eves.

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". Avoid contact with skin

and eyes.

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. Avoid breathing dust, vapour, mist, or gas. Avoid contact with eyes, skin, and clothing. 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

07/25/2017

Contains no substances with occupational exposure limit values.

10X Baseline-ZERO™ DNase Reaction 2/5

Safety Data Sheet

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

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.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure as

necessary

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

9.1. Information on basic physical and chemical properties

Physical state : Liquic

: No data available Color Odor No data available Odor Threshold No data available : No data available Melting point : No data available Freezing point 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 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 No data available Viscosity, kinematic

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, dynamic

Explosive properties

Oxidising properties Explosive limits

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

No data available

: No data available

: No data available

: No data available

Safety Data Sheet

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

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Nitrogen oxides, 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

dientified as probablye, 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 anticpated carcinogen by NTP.

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

identified as a carcinoen 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 respiratory irratation.

Symptoms/injuries after skin contact : May cause skin irritation.

Symptoms/injuries after eye contact : Direct contact with the eyes is likely to be irritating.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

Additional Information : The chemical, physical, and toxicological properties have not 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

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

Safety Data Sheet

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

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15: Regulatory information

15.1. US Federal regulations

SARA 302

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

SARA 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

No SARA Hazards

SARA 313

This material 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.

No additional information available

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

No components are subject to the Massachusetts Right to Know Act.

New Jersey Right to Know Hazardous Substance List

Tris(hydroxymethyl)aminomethanehydrochloride, CAS 1185-53-1

Pennsylvania Right to Know List

Tris(hydroxymethyl)aminomethanehydrochloride, CAS 1185-53-1

SECTION 16: Other information

Indication of changes : Revision X.0: Updated format.

Revision date : 07/25/2017 Other information : Author:

NFPA health hazard : 1 – Exposure would cause irritation with only minor residual

injury.

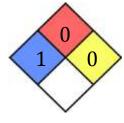
NFPA fire hazard : 0 – Materials that will not burn under typical fire conditions,

including intrinsically noncombustible materials such as

concrete, stone, and sand.

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

and is not reactive with water.



HMIS III Rating

Health: 1Flammability: 0Physical Hazard: 0Personal 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: 07/09/2017 Version: X 0

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

1.1. **Product identifier**

: 10X Baseline-ZERO™ DNase Stop Solution Product name

Product form

: This component is part of the Baseline-ZERO[™] DNase Product (DB0711K, DB0715K). Product code

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

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.

Label elements

GHS-US labelling

No labelling 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**

: Baseline-ZERO™ DNase Stop Solution Synonyms

No components need to be disclosed according to the applicable 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

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.

: IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin for at least 15 First-aid measures after skin contact

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

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 : May cause skin irritation.

Symptoms/injuries after eye contact Direct contact with the eyes is likely to be irritating.

07/25/2017 10X Baseline-ZERO™ DNase Stop Page 1 Solution

Safety Data Sheet

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

Symptoms/injuries after ingestion : May 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 : No data available. Explosion hazard : No data available.

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.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Contains no substances with occupational exposure limit values.

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.

Safety Data Sheet

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

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.

Skin and body protection : Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure.

Respiratory protection : Use NIOSH/MSHA-approved dust/particulate respirator. 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 No data available Odor No data available Odor Threshold No data available pΗ No data available Melting point Freezing point 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 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 No data available Decomposition temperature Viscosity, kinematic No data available

Explosive limits

Other information

9.2. None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Viscosity, dynamic

Explosive properties

Oxidising properties

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.

No data available

No data available

No data available

No data available

Safety Data Sheet

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Hazardous decomposition products

Nitrogen oxides, carbon oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: No data available Acute toxicity 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

dientified as probablye, 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 anticpated carcinogen by NTP.

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

identified as a carcinoen 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 : May cause skin irritation.

: Direct contact with the eyes is likely to be irritating. Symptoms/injuries after eye contact

Symptoms/injuries after ingestion May cause gastrointestinal irritation.

Additional Information The chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12: Ecological information

No additional information available

Persistence and degradability 12.2.

No additional information available

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods 13.1.

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

Safety Data Sheet

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

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 304 Extremely Hazardous Substances Reportable Quantity

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

SARA 311/312 Hazards

No SARA Hazards

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

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

Edetic Acid, CAS 60-00-4

New Jersey Right to Know Hazardous Substance List

Edetic Acid, CAS 60-00-4

Pennsylvania Right to Know List

Edetic Acid, CAS 60-00-4

SECTION 16: Other information

Indication of changes : Revision X.0: Updated format.

Revision date 07/25/2017 Other information Author:

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

materials.

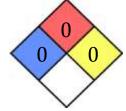
: 0 - Materials that will not burn under typical fire conditions, NFPA fire hazard

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 : 0 : 0 Flammability : 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.