

# 07 September 2017

# **Kit Components**

Product Code	Description
15100-1	NxSeq® Single Indexing Kit, Set A

# Components

NxSeq® Universal Adaptor	F813785-1
Adaptor Dilution Buffer	F883786-1
Primer Mix - Index 1	F813066-2
Primer Mix - Index 2	F813067-2
Primer Mix - Index 3	F813068-2
Primer Mix - Index 4	F813069-2
Primer Mix - Index 5	F813070-2
Primer Mix - Index 6	F813071-2
Primer Mix - Index 7	F813072-2
Primer Mix - Index 8	F813073-2
Primer Mix - Index 9	F813074-2
Primer Mix - Index 10	F813075-2
Primer Mix - Index 11	F813076-2
Primer Mix - Index 12	F813077-3



# Safety Data Sheet

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

Revision date: 06/10/2017 Version: X.0

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

#### 1.1. Product identifier

Product name : NxSeq® Universal Adaptor

Product form : Mixture
Product code : F813785

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

Use of the substance/mixture : Laboratory Chemicals.

#### 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

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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 a hazardous substance or mixture.

#### 2.2. Label elements

#### **GHS-US** labelling

Not a hazardous substance or mixture.

#### 2.3. Other hazards

No additional information available.

# 2.4. Unknown acute toxicity (GHS-US)

No data available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

### 3.2. Mixture

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

#### **SECTION 4: First aid measures**

First-aid measures after skin contact

# 4.1. Description of first aid measures

First-aid measures general : If exposed or concerned, get medical attention/advice. 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.

IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with tepid water

for at least 15 minutes. If symptoms continue, consult a physician.

First-aid measures after eye contact : IF IN EYES: Immediately flush with tepid water for at least 15 minutes. Remove contact lenses

if present and can easy to do so. Continue rinsing. If symptoms continue, consult a physician.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting. Consult a physician if symptoms persist. Do not give anything by mouth to an unconscious person.

# 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.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

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# Safety Data Sheet

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### 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 : Incase of fire, use water, dry chemical, chemical foam, or alcohol-resistance foam. Use agents

most appropriate to extinguish the fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Product is not flammable. Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. In the event of fire and/or explosion, do not breathe fumes. Do not dispose of fire-

fighting water in the environment.

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 Protective equipment as described in Section 8.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves 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 vermiculite and sand. 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 working with mixture, before leaving the laboratory, before eating, drinking or smoking and

when leaving work. Avoid ingestion and inhalation. Keep container tightly closed.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in at either -20°C or -70°C . Keep container tightly closed.

# SECTION 8: Exposure controls/personal protection

# 8.1. Control parameters

Components with workplace 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 should be available.

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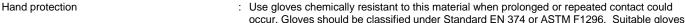
# Safety Data Sheet

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

Personal protective equipment : Gloves. Protective goggles.



: No data available



for this specific application can be recommended by the glove supplier.

Eye protection : Use eye protection suitable to the environment. Avoid direct contact with eyes.

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

Respiratory protection : Use NIOSH-approved dust/particulate respirator as needed. Where vapor, mist, or dust exceed

PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

# **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid containing dissolved material

Color : Colorless

Odor : No data available
Odor Threshold : No data available

pH : ~ 7

: No data available Melting point 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 No data available Vapour pressure Relative vapour density at 20 °C No data available : No data available Relative density Solubility : No data available : No data available Log Pow : No data available Log Kow 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 Oxidising properties : No data available

# 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# 10.1. Reactivity

**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.

# 10.4. Conditions to avoid

None known.

# 10.5. Incompatible materials

None known

# 10.6. Hazardous decomposition products

None known.

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# Safety Data Sheet

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

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not available : Not available Skin corrosion/irritation Serious eye damage/irritation : Not available Respiratory or skin sensitisation : Not available : Not available Germ cell mutagenicity Carcinogenicity : Not available : Not available Reproductive toxicity Specific target organ toxicity (single exposure) : Not available

Specific target organ toxicity (repeated exposure)

: Not classified

: Not available

Aspiration hazard

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.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

# **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.

#### Mobility in soil

No additional information available.

#### 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

# **OSHA Hazards**

No OSHA Hazards

# **CERCLA Reportable Quantity**

This product does not contain any components with a CERCLA RQ.

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# Safety Data Sheet

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

No SARA Hazards

#### **SARA 302**

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

#### **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

#### This mixture not listed on the following:

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

### **SECTION 16: Other information**

Indication of changes : Revision X.0: New SDS Created.

Revision date : 06/10/2017 Other information : Author: .

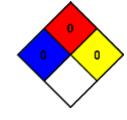
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

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

and are not reactive with water.



# **HMIS III Rating**

Health: 0Flammability: 0Physical: 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.

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# Safety Data Sheet

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

Revision date: 09/07/2017 Version: X.0

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

#### 1.1. Product identifier

Product name : Adaptor Dilution Buffer

Product form : Mixture

Product code : Product code for this component is F883786.

#### 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

None.

#### 2.4. Unknown acute toxicity (GHS-US)

No data available.

# **SECTION 3: Composition/information on ingredients**

#### 3.2. Mixture

Name	Product identifier	%
Tris, CAS # 77-86-1 EC# 201-064-4	Ingredient in product.	3%
Chemical Formula: C <sub>4</sub> H <sub>11</sub> NO <sub>3</sub> Molecular Weight: 121.14 g/mol		
Synonyms: 2-Amino-2-(hydroxymethyl)-1,3-propanediol, THAM, Trometamol, Tris base,		
Tris(hydroxymethyl)aminomethane		

# **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.

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.

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# Safety Data Sheet

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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 irritation, redness, and pain.

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.

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. 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 soan and water.

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.

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# 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 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

No data available Color No data available Odor Odor Threshold : No data available рΗ : No data available : No data available Melting point : No data available Freezing point (50% aquesous solution) Boiling point No data available 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 Viscosity, dynamic : No data available

#### 9.2. Other information

None.

# **SECTION 10: Stability and reactivity**

## 10.1. Reactivity

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.

#### 10.4. Conditions to avoid

Hygroscopic environments.

# 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon monoxide, carbon dioxide, nitrogen oxides.

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No data available

No data availableNo data available

# Safety Data Sheet

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

### **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 irritation to respiratory tract. Symptoms/injuries after skin contact : May cause mild irritation to skin.

Symptoms/injuries after eye contact : May cause irritation, redness, and pain.

Symptoms/injuries after ingestion : May cause gastrointestinal distress, nausea, and diarrhea.

Additional Information : 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

### 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

### **IMDG**

Not dangerous goods

#### ΙΑΤΑ

Not dangerous goods

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# Safety Data Sheet

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

# **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

No SARA Hazards

#### **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.

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**

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

### New Jersey Right to Know Hazardous Substance List

Tris(hydroxymethyl)aminomethane, CAS 77-86-1

#### Pennsylvania Right to Know List

Tris(hydroxymethyl)aminomethane, CAS 77-86-1

## **SECTION 16: Other information**

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

Revision date : 09/07/2017 Other information : Author:

NFPA health hazard : 0 – Poses no health hazard, no precaustions necessary

and would offer no hazard beyond that of ordinary

combustible materials.

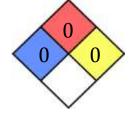
NFPA fire hazard : 0 – Material that will not burn under typical fire conditions,

including intrinsically noncombustibel 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: 0Flammability: 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.

09/07/2017 Adaptor Dilution Buffer 5/5



# Safety Data Sheet

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

Revision date: 06/10/2017 Version: X.0

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

#### 1.1. Product identifier

Product name : Primer Mix-Index 1-12

Product form : Mixture
Product code : F813066

F813067 F813068 F813069 F813070 F813071 F813072 F813073 F813074 F813075 F813076

F813077

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

Use of the substance/mixture : Laboratory Chemicals.

# 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 a hazardous substance or mixture.

#### 2.2. Label elements

#### **GHS-US** labelling

Not a hazardous substance or mixture.

## 2.3. Other hazards

No additional information available.

### 2.4. Unknown acute toxicity (GHS-US)

No data available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1. Substance

Not applicable

# 3.2. Mixture

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, get medical attention/advice. 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.

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# Safety Data Sheet

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

First-aid measures after skin contact : IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with tepid water

for at least 15 minutes. If symptoms continue, consult a physician.

First-aid measures after eye contact : IF IN EYES: Immediately flush with tepid water for at least 15 minutes. Remove contact lenses

if present and can easy to do so. Continue rinsing. If symptoms continue, consult a physician.

First-aid measures after ingestion : IF SWALLOWED: Rinse mouth thoroughly. Do not induce vomiting. Consult a physician if

symptoms persist. Do not give anything by mouth to an unconscious person.

#### 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.

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 : Incase of fire, use water, dry chemical, chemical foam, or alcohol-resistance foam. Use agents most appropriate to extinguish the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Product is not flammable. Explosion hazard : Product is not explosive.

Reactivity : No dangerous reactions known under normal conditions of use.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. In the event of fire and/or explosion, do not breathe fumes. Do not dispose of fire-

fighting water in the environment.

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 Protective equipment as described in Section 8.

6.1.2. For emergency responders

Protective equipment : Wear suitable protective clothing, gloves 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 vermiculite and sand. 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 working with mixture, before leaving the laboratory, before eating, drinking or smoking and when leaving work. Avoid ingestion and inhalation. Keep container tightly closed.

# 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store in at either -20°C or -70°C . Keep container tightly closed.

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# **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Components with workplace 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 should be available.

Personal protective equipment : Gloves. Protective goggles.





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.

Eye protection : Use eye protection suitable to the environment. Avoid direct contact with eyes.

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

Respiratory protection : Use NIOSH-approved dust/particulate respirator as needed. Where vapor, mist, or dust exceed

PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment.

#### **SECTION 9: Physical and chemical properties**

#### 9.1. Information on basic physical and chemical properties

Physical state : Liquid containing dissolved material

Color : Colorless

Odor : No data available
Odor Threshold : No data available

pH : ~7

 No data available Melting point : No data available Freezing point Boiling point : No data available Flash point : No data available Relative evaporation rate : No data available : No data available Flammability (solid, gas) Vapour pressure No data available Relative vapour density at 20 °C : No data available Relative density : No data available : No data available Solubility 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

#### 9.2. Other information

No additional information available

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

**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.

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: No data available

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#### Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

None known.

#### 10.5. Incompatible materials

None known.

#### 10.6. Hazardous decomposition products

None known.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

: Not available Acute toxicity Skin corrosion/irritation : Not available : Not available Serious eye damage/irritation Respiratory or skin sensitisation : Not available Germ cell mutagenicity : Not available Carcinogenicity : Not available Reproductive toxicity : Not available Specific target organ toxicity (single exposure) : Not available Specific target organ toxicity (repeated

exposure)

: Not available

Aspiration hazard : Not classified

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.

Symptoms/injuries after ingestion : May cause gastrointestinal irritation.

### **SECTION 12: Ecological information**

#### **Toxicity** 12.1

No additional information available.

#### 12.2. Persistence and degradability

No additional information available.

#### Bioaccumulative potential 12.3.

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**

#### In accordance with DOT

Not hazardous for transport

#### Additional information

Other information : No supplementary information available.

### Transport by sea

No additional information available

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#### Air transport

No additional information available

# **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### **OSHA Hazards**

No OSHA Hazards

### **CERCLA Reportable Quantity**

This product does not contain any components with a CERCLA RQ.

### 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 302**

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

#### **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

# This mixture not listed on the following:

- U.S. Massachusetts Right To Know List
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Pennsylvania RTK (Right to Know) List

### **SECTION 16: Other information**

Indication of changes : Revision X.0: New SDS Created.

Revision date : 06/10/2017
Other information : Author: .

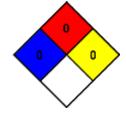
NFPA health hazard : 0 - Exposure under fire conditions would offer no hazard

beyond that of ordinary combustible materials.

NFPA fire hazard : 0 - Materials that will not burn.

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

and are not reactive with water.



**HMIS III Rating** 

Health: 0Flammability: 0Physical: 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.

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