btinfo@biotium.com http://www.biotium.com/

# **SAFETY DATA SHEET**

Date: April 10, 2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

# **Product Name and Catalog Number:**

Component A		Catalog number	
Biotin	92286A	92266A	92244A
FITC	92294A	92295A	92296A
Digoxigenin	92328A	92329A	92330A
DNP	92325A	92326A	92327A
CF350	92270A	92250A	92230A
CF405S	92271A	92251A	92231A
CF405M	92272A	92252A	92232A
CF405L	92303A	92304A	92305A
CF430	92316A	92317A	92318A
CF440	92319A	92320A	92321A
CF450	92322A	92323A	92324A
CF488A	92273A	92253A	92233A
CF514	92331A	92332A	92333A
CF532	92289A	92290A	92291A
CF543	92287A	92267A	92247A
CF555	92274A	92254A	92234A
CF568	92275A	92255A	92235A
CF570	92334A	92335A	92336A
CF583	92337A	92338A	92339A
CF594	92276A	92256A	92236A
CF633	92277A	92257A	92237A
CF640R	92278A	92258A	92245A
CF647	92279A	92259A	92238A
CF660C	92280A	92260A	92239A
CF660R	92281A	92261A	92243A
CF680	92282A	92262A	92240A
CF680R	92284A	92264A	92241A
CF750	92241A	92264A	92284A
CF770	92285A	92265A	92242A
CF790	92288A	92268A	92248A

Unit Size: 1 vial

Manufacturer/Supplier: Biotium, Inc.

46117 Landing Parkway, Fremont, CA 94538, USA Phone: 1-510-265-1027, Fax: 1-510-265-1352

Web: http://www.biotium.com

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Signal word None
Health hazards None
Physical hazards None
Hazard statements None

Precautionary statements None

WHMIS classification None



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# GHS hazard pictogram None

Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None

#### **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0

Fire: 0

Reactivity Hazard: 0

# Labeling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram None
Signal word None
Hazard statements None

Precautionary statements None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Dye or label	-	-	-	>99%	-	-

# 4. FIRST- AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

# If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIREFIGHTING MEASURES

# Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

# Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

# **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

SDS PSF008



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Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

# Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20 °C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

None

# Personal protective equipment

# Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance Solid Odor No data available Odor threshold No data available pH No data available Melting point/freezing point No data available Boiling point No data available Flash point No data available Evaporate rate No data available Explosive limits No data available Explosive limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available Relative density No data available Partition coefficient:n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Explosive properties No data available Ovideration of the properties No data available No data available No data available	Chemical Name	Dye or label
Odor threshold  pH  No data available  Melting point/freezing point  No data available  Boiling point  No data available  Flash point  No data available  Evaporate rate  No data available  Flammability  No data available  Explosive limits  No data available  Vapor pressure  No data available  Vapor density  No data available  Relative density  No data available  Partition coefficient:n-octanol/water  Auto-ignition temperature  No data available  Viscosity  No data available	Appearance	Solid
pH No data available Melting point/freezing point No data available Boiling point No data available Flash point No data available Evaporate rate No data available Flammability No data available Explosive limits No data available Vapor pressure No data available Vapor density No data available Relative density No data available Solubility No data available Partition coefficient:n-octanol/water No data available Auto-ignition temperature No data available Decomposition temperature No data available Viscosity No data available Explosive properties No data available	Odor	No data available
Melting point/freezing point  Boiling point  Ro data available  Flash point  Ro data available  Evaporate rate  Ro data available  Flammability  Ro data available  Explosive limits  Vapor pressure  Vapor density  Relative density  Ro data available  Solubility  Partition coefficient:n-octanol/water  Auto-ignition temperature  Viscosity  No data available  Viscosity  No data available	Odor threshold	No data available
Boiling point  Flash point  Flash point  Evaporate rate  Flammability  Flammability  Explosive limits  Vapor pressure  Vapor density  Relative density  Solubility  Partition coefficient:n-octanol/water  Auto-ignition temperature  Viscosity  Evaporate rate  No data available	pH	No data available
Flash point  Evaporate rate  No data available  Flammability  No data available  Explosive limits  Vapor pressure  Vapor density  Relative density  Solubility  Partition coefficient:n-octanol/water  Auto-ignition temperature  Viscosity  No data available	Melting point/freezing point	No data available
Evaporate rate  Flammability  No data available Explosive limits  No data available Vapor pressure  No data available Vapor density  No data available No data available No data available Relative density  No data available Solubility  No data available Partition coefficient:n-octanol/water Auto-ignition temperature  Decomposition temperature  No data available Viscosity  No data available Viscosity  No data available  Explosive properties  No data available	Boiling point	No data available
Flammability  Explosive limits  Vapor pressure  Vapor density  Relative density  Solubility  Partition coefficient:n-octanol/water  Auto-ignition temperature  Decomposition temperature  Viscosity  No data available  Viscosity  No data available  Explosive properties	Flash point	No data available
Explosive limits  Vapor pressure  Vapor density  Relative density  Solubility  Partition coefficient:n-octanol/water  Auto-ignition temperature  Decomposition temperature  Viscosity  Explosive limits  No data available	Evaporate rate	No data available
Vapor pressure  Vapor density  Relative density  Solubility  Partition coefficient:n-octanol/water  Auto-ignition temperature  Decomposition temperature  Viscosity  No data available  Viscosity  No data available  Explosive properties  No data available	Flammability	No data available
Vapor density Relative density No data available Solubility No data available Partition coefficient:n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity No data available No data available No data available Viscosity No data available Explosive properties No data available	Explosive limits	No data available
Relative density Solubility No data available Partition coefficient:n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity No data available	Vapor pressure	No data available
Solubility Partition coefficient:n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity No data available	Vapor density	No data available
Partition coefficient:n-octanol/water Auto-ignition temperature Decomposition temperature Viscosity No data available Explosive properties No data available	Relative density	No data available
Auto-ignition temperature  Decomposition temperature  Viscosity  No data available  No data available  No data available  Explosive properties  No data available	Solubility	No data available
Decomposition temperature  Viscosity  No data available  Explosive properties  No data available  No data available	Partition coefficient:n-octanol/water	No data available
Viscosity No data available Explosive properties No data available	Auto-ignition temperature	No data available
Explosive properties No data available	Decomposition temperature	No data available
· · ·	Viscosity	No data available
Ovidizing proportion No data available	Explosive properties	No data available
Oxidizing properties No data available	Oxidizing properties	No data available

# 10. STABILITY AND REACTIVITY

# **Chemical stability**



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Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid

Heat, flames and sparks.

Materials to avoid

No data available

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50 None

Inhalation LC50 None

Dermal LD50 None

Other information on acute toxicity No data available

Skin corrosion/irritation No data available

Serious eve damage/eve irritation No data available

Respiratory or skin sensitization No data available

Germ cell mutagenicity No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available

Aspiration hazard

No data available

# Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

**Additional Information** 

RTECS: None

# 12. ECOLOGICAL INFORMATION

No information available

Persistence and degradability No information available

Biodegradation No information available Mobility in soil No information available

Results of PBT and vPvB assessment No information available

Other adverse effects No information available Additional information No information available

# 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.



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#### 14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US), TDG

Not dangerous goods during transportation

**UN** number None

**UN proper shipping name** None Transport hazard class

Packing group None

**Environmental hazards** None

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code None

Special precaution for user None

#### 15. REGULATION INFORTMATION

#### **US Federal Regulations**

US Toxic Substances Control Act (TSCA): Not listed

SARA 302: No chemicals were found. SARA 313: No chemicals were found.

SARA 311/312 Hazards: No chemicals were found.

**WHMIS Hazard Class** None

# 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Refer to section 2 and section 3

Prepared by: Regulatory Department

Biotium Inc.

Version no.

Revision date (Initials) 4/10/18 (LR)

Reason for revision Application of WHMIS labeling requirements

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.

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# SAFETY DATA SHEET

Date: April 10, 2018

#### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** Mix-n-Stain Reaction Buffer, 10X

Catalog Number: 99951-1 / 99951 Unit Size: 15 uL / 30 uL Manufacturer/Supplier: Biotium, Inc.

46117 Landing Parkway, Fremont, CA 94538, USA Phone: 1-510-265-1027, Fax: 1-510-265-1352

Web: http://www.biotium.com

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Signal word None
Health hazards None
Physical hazards None
Hazard statements None

Precautionary statements None

WHMIS classification None

GHS hazard pictogram None

Classification according to Regulation (EC) No 1272/2008[CLP] None

Classification according to Directive 1999/45/EC None

# **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Labeling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram None
Signal word None
Hazard statements None

Precautionary statements None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients present at concentrations classified as harmful to health or the environment.

#### 4. FIRST- AID MEASURES

#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. **If inhaled** 

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. **In case of skin contact** 

Wash off with soap and plenty of water. Consult a physician.

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### In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

### Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

# **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20 °C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

None

#### Personal protective equipment

#### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

# Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

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# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Mix-n-Stain Reaction Buffer, 10X
Appearance	Liquid
Odor	No information available
Odor threshold	No information available
pH	8.3-8.5
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Evaporate rate	No information available
Flammability	No information available
Explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility	No information available
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available

#### 10. STABILITY AND REACTIVITY

#### **Chemical stability**

Stable under recommended storage conditions.

# Possibility of hazardous reactions

No data available

#### Conditions to avoid

Heat, flames and sparks.

### Materials to avoid

No data available

# **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

# 11. TOXICOLOGICAL INFORMATION

**Acute toxicity** 

Oral LD50 None

Inhalation LC50 None

Dermal LD50 None

Other information on acute toxicity No data available

Skin corrosion/irritation No data available

Serious eye damage/eye irritation No data available

Respiratory or skin sensitization 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.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity No data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

No data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

No data available **Aspiration hazard** 

No data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

**Additional Information** 

RTECS: None

# 12. ECOLOGICAL INFORMATION

**Toxicity** No information available

Persistence and degradability No information available

Biodegradation No information available Mobility in soil No information available

Results of PBT and vPvB assessment No information available

Other adverse effects No information available Additional information No information available

# 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US), TDG Not dangerous goods during transportation

**UN number** None

**UN proper shipping name** None **Transport hazard class** None

Packing group None

Environmental hazards None

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code None

Special precaution for user None

# 15. REGULATION INFORTMATION

### **US Federal Regulations**

US Toxic Substances Control Act (TSCA): Not listed

SARA 302: No chemicals were found. SARA 313: No chemicals were found.

SARA 311/312 Hazards: No chemicals were found.

WHMIS Hazard Class None

# 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Refer to section 2 and section 3

Prepared by: Regulatory Department



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Biotium Inc.

Version no.

Revision date (Initials) 4/10/18 (LR)

Reason for revision Application of WHMIS labeling requirements.

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.



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# SAFETY DATA SHEET

Date: April 10, 2018

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:Mix-n-Stain Storage BufferCatalog Number:99952-2 / 99952-1 / 99952Unit Size:60 uL / 150 uL / 300 uL

Manufacturer/Supplier: Biotium, Inc.

46117 Landing Parkway, Fremont, CA 94538, USA Phone: 1-510-265-1027, Fax: 1-510-265-1352

Web: http://www.biotium.com

Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Signal word None
Health hazards None
Physical hazards None
Hazard statements None

Precautionary statements None

WHMIS classification None

GHS hazard pictogram None

Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None

# **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Labeling according to Regulation (EC) No 1272/2008[CLP]

Hazard pictogram None Signal word None Hazard statements None

Precautionary statements None

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Glycerol	56-81-5	200- 272-2	-	<50%	-	-

# 4. FIRST- AID MEASURES



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#### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

# In case of eye contact

Flush eyes with water as a precaution.

#### If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

# 5. FIREFIGHTING MEASURES

# Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water.

### Special protective equipment for firefighters

Wear self contained breathing apparatus for firefighting if necessary.

# 6. ACCIDENTAL RELEASE MEASURES

# **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition.

#### **Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

# Methods and materials for containment and cleaning up

Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

# Precautions for safe handling

Avoid inhalation of vapor or mist.

Avoid direct contact with substance.

#### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Store at -20 °C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Substance Glycerol

CAS no. 56-81-5

country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value,8hours	-	10 mg/m <sup>3</sup>			10 mg/m <sup>3</sup>	50 mg/m <sup>3</sup> inhalable aerosol
Limit value, short term						100 mg/m <sup>3</sup> inhalable aerosol

country	Hungary	Italy	Poland	Spain	Sweden	Netherlands	Switzerland
Limit value,8hours			10 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>		-	50 mg/m <sup>3</sup> inhalable aerosol
Limit value, short term					-		100 mg/m <sup>3</sup> inhalable



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aerosol	

country	United Kingdom	USA- NIOSH	USA- OSHA	Australia	Canada	Japan	South Korea
Limit value,8hours	10 mg/m <sup>3</sup>		15 mg/m <sup>3</sup> inhalable dust 5 mg/m <sup>3</sup> respirable dust	10 mg/m <sup>3</sup> (1)	10 mg/m <sup>3</sup>		10 mg/m <sup>3</sup>
Limit value, short term							

Australia (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Germany STV 15 minutes average value

# Personal protective equipment

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

# Respiratory protection

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

# Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Mix-n-Stain storage buffer
Appearance	Liquid
Odor	No information available
Odor threshold	No information available
pH	6-8
Melting point/freezing point	No information available
Boiling point	No information available
Flash point	No information available
Evaporate rate	No information available
Flammability	No information available
Explosive limits	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	No information available
Solubility	No information available
Partition coefficient:n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity	No information available
Explosive properties	No information available
Oxidising properties	No information available



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# 10. STABILITY AND REACTIVITY

#### **Chemical stability**

Stable under recommended storage conditions.

### Possibility of hazardous reactions

No data available

#### Conditions to avoid

Heat, flames and sparks.

#### Materials to avoid

No data available

#### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

# 11. TOXICOLOGICAL INFORMATION

# **Acute toxicity**

Oral LD50 LD50 Oral – Rat - 12,600 mg/kg (Glycerol)

Inhalation LC50 None

**Dermal LD50** LD50 Dermal – Rabbit - > 10,000 mg/kg (Glycerol)

Other information on acute toxicity no data available

**Skin corrosion/irritation** Skin – Rabbit Result: Mild skin irritation - 24 h (Glycerol)

Serious eye damage/eye irritation Eyes - Rabbit Result: Mild eye irritation - 24 h (Glycerol)

**Respiratory or skin sensitization** no data available **Germ cell mutagenicity** no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity no data available

Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

Aspiration hazard no data available

### Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

#### Additional Information

RTECS: MA8050000 (Glycerol)

Prolonged or repeated exposure may cause:, Nausea, Headache, Vomiting, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Kidney - Irregularities - Based on Human Evidence (Glycerol)



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#### 12. ECOLOGICAL INFORMATION

**Toxicity** No information available

Persistence and degradability No information available

No information available Biodegradation Mobility in soil No information available

Results of PBT and vPvB assessment No information available

Other adverse effects No information available Additional information No information available

#### 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

# 14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US), TDG Not dangerous goods during transportation

**UN** number None

**UN proper shipping name** None **Transport hazard class** 

Packing group

**Environmental hazards** None

Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code None

Special precaution for user None

# 15. REGULATION INFORTMATION

# **US Federal Regulations**

US Toxic Substances Control Act (TSCA): Not listed

SARA 302: No chemicals were found. SARA 313: No chemicals were found.

SARA 311/312 Hazards: No chemicals were found.

**WHMIS Hazard Class** None

# 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008

Refer to section 2 and section 3

Prepared by: Regulatory Department

Biotium Inc.

Version no. 5

4/10/18 (LR) Revision date (Initials)

Reason for revision Application of WHMIS labeling requirements.

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.

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