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# MATERIAL SAFETY DATA SHEET

Date: March 30, 2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Mix-n-Stain Alkaline Phosphatase Antibody Labeling Ki

**Catalog Number:** 

Label Enzyme Catalog number
Alkaline 92314 92315
Phosphatase

Unit Size: 1 Kit
Manufacturer/Supplier: Biotium, Inc.

3159 Corporate Place, Hayward, CA 94545, USA Phone: 1-510-265-1027, Fax: 1-510-265-1352

Web: http://www.biotium.com

## Component 92312A, 92311A Modified alkaline phosphatase

## 2. HAZARDS IDENTIFICATION

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

None

Classification according to Directive 1999/45/EC

None

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

Hazard pictogram None Signal word None

Hazard statements None

Precautionary statements None

## **HMIS Classification**

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

Fire: 0 Reactivity Hazard: 0

B. 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
Modified alkaline phosphatase	-	-	-	30-50%	-	-

### 4. FIRST- AID MEASURES

General advice



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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 Modified glucose oxidase

CAS no. None

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).

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### 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	Modified alkaline phosphatase
Appearance	Solid
Odor	None
Odor threshold	No information available
pH	No information available
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
Oxidizing 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 irritationno data available



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**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

**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) not dangerous good during transportation

UN number none

UN proper shipping name none Transport hazard class none

Packing group none

Environmental hazards none Special precaution for user none

# 15. REGULATION INFORTMATION



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## **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.

## 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. 1

Reason for revision Application of CLP labeling and corresponding requirements

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## Component 99807 / 99807-1 Antibody Modifying Reagent

## HAZARDS IDENTIFICATION

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

Classification according to Directive 1999/45/EC

None

Labelling according to Regulation (EC) No 1272/2008[CLP] Hazard pictogram None

Signal word None Hazard statements None

mazard statements None

Precautionary statements None

## **HMIS Classification**

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

Fire: 0

Reactivity Hazard: 0

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Antibody Modifying Reagent	-	-	-	80-100%	-	-

### 3. 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.

#### 4. 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.

## 5. 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.

## 6. 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.

## 7. EXPOSURE CONTROLS/PERSONAL PROTECTION



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## Components with workplace control parameters

Substance Modified Antibody Modifying Reagent

CAS no. None

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.

## 8. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Antibody Modifying Reagent
Appearance	Solid
Odor	None
Odor threshold	No information available
pН	No information available
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
Oxidizing properties	No information available

## 9. 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



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Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - no data available

## 10. 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 irritationno 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

## 11. ECOLOGICAL INFORMATION

**Toxicity** no information available

no information available Persistence and degradability

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

#### 12. DISPOSAL CONSIDERATIONS

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

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#### 13. TRANSPORT INFORMATION

IATA, IMDG, DOT (US) not dangerous good during transportation

UN number none

UN proper shipping name none Transport hazard class none

Packing group none

Environmental hazards none Special precaution for user none

#### 14. 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.

#### 15. 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.

Reason for revision Application of CLP labeling and corresponding requirements

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## Component 99951/99951-1 Mix-n-Stain reaction buffer, 10X

## 1. HAZARDS IDENTIFICATION

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

None

Classification according to Directive 1999/45/EC

None

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

Hazard pictogram None

Signal word None

Hazard statements None

Precautionary statements None



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## **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 1

Fire: 0

Reactivity Hazard: 0

## 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
Sodium bicarbonate	144-55-8	205-633-8	-	1-5%	-	-

#### 3. 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.

## 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.

## ACCIDENTAL RELEASE MEASURES

## Personal precautions

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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.

#### 6. 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.

#### 7. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Substance Mix-n-stain reaction buffer Control parameter No information available

## 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.

#### 8. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Mix-n-stain reaction buffer



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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

## 9. 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** 



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Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - no data available

#### 10. 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 irritationno 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.

Eves May cause eye irritation.

## **Additional Information**

RTECS: None

## 11. 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 Addditional information no information available



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#### 12. DISPOSAL CONSIDERATIONS

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

### 13. TRANSPORT INFORMATION

IATA, IMDG, DOT(US) not dangerous good during transportation

UN number none

UN proper shipping name none Transport hazard class none

Packing group none

Environmental hazards none Special precaution for user none

## 14. 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.

## 15. OTHER INFORMATION

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

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Biotium Inc.

Version no. 1

Reason for revision Application of CLP labeling and corresponding requirements

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## Component 99952/99952-1 Mix-n-stain Storage buffer

## 2. HAZARDS IDENTIFICATION

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

Classification according to Directive 1999/45/EC

None

Labelling according to Regulation (EC) No 1272/2008[CLP] Hazard pictogram None

Signal word None

Hazard statements None

Precautionary statements None

#### **HMIS Classification**

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

Fire: 0

Reactivity Hazard: 0

## 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%	-	-
Bovine Serum Albumin	9048- 46-8	232- 936-2	-	<0.5%	-	-
Disodium hydrogenorthophosphate	7558- 79-4	231- 448-7	-	<0.5%	-	-
Sodium dihydrogenorthophosphate	7558- 80-7	231- 449-2	-	<0.5%	-	-
Sodium chloride	7647- 14-5	231- 589-3	-	<0.5%	-	-
Sodium Azide	26628- 22-8	247- 852-1	011- 004-00- 7	<0.01%	T+= very toxic, R28,R32,R50- 53	Acute Tox.2, H300,H400,H410

## 4. FIRST- AID MEASURES

#### General advice

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



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#### 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.

### 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 Sodium Azide

CAS no. 26628-22-8

country	Austria	Belgium	Denmark	European	France	Germany
				Union		



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Limit	0.1mg/m3	0.1mg/m3		0.1mg/r	n3	0.1m	g/m3	0.1	mg/m3	0.2mg/m3
value,8hours										
Limit value, short term	0.3mg/m3	0.3mg/m3		0.2mg/r	n3	0.3mg	g/m3	0.3	mg/m3	0.4mg/m3
country	Hungary	Italy	Pol	and	Spain		Sweden		Netherland s	United Kingdom
Limit value,8hours	0.1mg/m3	0.1mg/m3	0.1	mg/m3	0.1mg	g/m3	-		0.1mg/m3	0.1mg/m3
Limit value, short term	0.3mg/m3	0.3mg/m3	0.3	mg/m3	0.3mg	g/m3	-		0.3mg/m3	0.3mg/m3
country	USA- NIOSH	USA- OSHA	Aus	stralia	Cana	da	Japan		South Korea	
Limit value,8hours	-	-	-		-		-		-	

## Personal protective equipment

0.3mg/m3

## **Hand protection**

Limit value,

short term

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.

0.3mg/m3

#### 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).

0.3mg/m3

## 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



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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

# 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.



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#### 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**

Chemical Name	LD50 (oral) rat	LD50 (dermal) rabbit	LC50 (inhalation)
Glycerol	12,600mg/kg	>10,000mg/kg	No data available
Bovine Serum Albumin	No data available	No data available	No data available
Sodium Azide	27mg/kg	20mg/kg	No data available
Disodium hydrogenorthophosph ate	17000mg/kg	No data available	No data available
Sodium dihydrogenorthophosp hate	8290mg/kg	No data available	No data available
Sodium chloride	3g/kg	10g/kg	42g/m3/H

Other information on acute toxicity

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritationno 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



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#### 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 Addditional 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) not dangerous good during transportation

UN number none

UN proper shipping name none Transport hazard class none

Packing group none

Environmental hazards 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.

## 16. OTHER INFORMATION

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

Prepared by: Regulatory Department

Biotium Inc.

Version no.

Reason for revision Application of CLP labeling and corresponding requirements

MSDS PS008EU Supplier of fluorescent and related biochemical reagents for life science research and drug discovery  $\textbf{Glowing Products for Science}^{\mathsf{TM}}$ 



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