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## SAFETY DATA SHEET

Date Revised: October 16, 2014

## 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Catalog Number:		Mix	Mix-n-Stain PerCP antibody labeling kit			
Label Dye			Cata	log number		
	PerCP		92308	92309		
Unit Size:		1 k	it			

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

#### Component 92298A, 92299A Modified RPE

#### 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

## 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
Modified PerCP	-	-	-	30-50%	-	-



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#### 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** 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 PerCP



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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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Modified PerCP
Appearance	Solid
Odor	No information available
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	Soluble in water
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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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. 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

Toxicityno information availablePersistence and degradabilityno information availableBiodegradationno information availableMobility in soilno information availableResults of PBT and vPvB assessmentno information availableOther adverse effectsno information availableAddditional informationno 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:	Regulat	tory Department
	Biotium	Inc.
Version no.	2	
Reason for revision	on	Application of CLP labeling and corresponding 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

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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.

#### Component 99997 Linking Agent

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: 1 Fire: 0 Reactivity Hazard: 0

## 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
Linking Agent	-	-	-	50-100%	-	-

The product contains no substances which at their given concentration, are considered to be hazardous to health.

#### 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

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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 parametersSubstanceLinking AgentControl parameter No information available

Personal protective equipment Hand protection



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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	Linking Agent
Appearance	Solid
Odor	No information available
Odor threshold	No information available
рН	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
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

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#### 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 know	vn
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

Toxicityno information availablePersistence and degradabilityno information availableBiodegradationno information availableMobility in soilno information availableResults of PBT and vPvB assessmentno information availableOther adverse effectsno information availableAddditional informationno information available



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#### 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.
 Biotium Inc.

 Version no.
 2

 Reason for revision
 Application of CLP labeling and corresponding 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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#### Component 99998-150uL, 99998-300uL Conjugate Storage buffer

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

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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#### 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** 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.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

#### Substance Sodium Azide

CAS no.	26628-22-8
CAS no.	26628-22-8

country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value,8hours	0.1mg/m3	0.1mg/m3	0.1mg/m3	0.1mg/m3	0.1mg/m3	0.2mg/m3
Limit value, short term	0.3mg/m3	0.3mg/m3	0.2mg/m3	0.3mg/m3	0.3mg/m3	0.4mg/m3

country	Hungary	Italy	Poland	Spain	Sweden	Netherland s	United Kingdom
Limit value,8hours	0.1mg/m3	0.1mg/m3	0.1mg/m3	0.1mg/m3	-	0.1mg/m3	0.1mg/m3
Limit value, short term	0.3mg/m3	0.3mg/m3	0.3mg/m3	0.3mg/m3	-	0.3mg/m3	0.3mg/m3

country	USA- NIOSH	USA- OSHA	Australia	Canada	Japan	South Korea
Limit value,8hours	-	-	-	-	-	-
Limit value, short term	0.3mg/m3	-	0.3mg/m3	0.3mg/m3	-	-

#### 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	Conjugate storage buffer	
Appearance	Liquid	
Odor	No information available	
Odor threshold	No information available	
рН	No information available	

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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

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

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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. 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

Toxicityno information availablePersistence and degradabilityno information availableBiodegradationno information availableMobility in soilno information availableResults of PBT and vPvB assessmentno information availableOther adverse effectsno information availableAddditional informationno information available

## 13. DISPOSAL CONSIDERATIONS

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

## 14. TRANSPORT INFORMATION

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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.

 Version no.
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 Reason for revision
 Application of CLP labeling and corresponding requirements

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