46117 Landing Parkway, Fremont, CA 94538, U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352

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

SAFETY DATA SHEET

Date Revised: April 11, 2017

PRODUCT AND COMPANY IDENTIFICATION 1.

Product Name:

Mix-n-Stain antibody labeling kit

Catalog Number:

	Catalog num	ber
92286	92266	92244
92294	92295	92296
92328	92329	92330
92325	92326	92327
92270	92250	92230
92271	92251	92231
92272	92252	92232
92303	92304	92305
92316	92317	92318
92319	92320	92321
92322	92323	92324
92273	92253	92233
92331	92332	92333
92289	92290	92291
92287	92267	92247
92274	92254	92234
92275	92255	92235
92276	92256	92236
92277	92257	92237
92278	92258	92245
92279	92259	92238
92280	92260	92239
92281	92261	92243
92282	92262	92240
92284	92264	92241
92241	92264	92284
92285	92265	92242
92288	92268	92248
	92294 92328 92325 92270 92271 92272 92303 92316 92316 92322 92323 92316 92319 92322 92323 923273 92331 92289 92274 92275 92276 92276 92278 92279 92280 92281 92284 92284 92284 92285	92294 92295 92328 92329 92325 92326 92270 92250 92271 92250 92272 92252 92303 92304 92316 92317 92312 92320 92322 92323 92273 92253 9231 92322 9232 92323 92273 92253 92287 92267 92287 92267 92275 92254 92276 92255 92276 92256 92277 92256 92278 92258 92279 92258 92279 92259 92280 92260 92281 92261 92282 92262 92284 92264 92284 92264 92285 92265

Manufacturer/Supplier:

Unit Size:

Biotium, Inc.

1 kit

46117 Landing Parkway, Fremont, CA 94538, USA Phone: 1-510-265-1027, Fax: 1-510-265-1352 Web: http://www.biotium.com

Component A CF dye

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

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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
CF dye	-	-	-	>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

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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 CF dye 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	CF dye
Appearance	Solid

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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 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	Non	Э	
Dermal LD50	None		
Other information	on on acute to	xicity	no data available
Skin corrosion/irritation	no data availa	able	
Serious eye damage/eye	irritationno d	ata available	
Respiratory or skin sens	itization no d	ata available	
Germ cell mutagenicity	no d	ata available	
Carcinogenicity			

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46117 Landing Parkway, Fremont, CA 94538, U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352 http://www.biotium.com/ 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 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

Special precaution for user none

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

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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.
 3

 Reason for revision
 Add full list of dye and reagents

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

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

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

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.



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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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	Mix-n-stain reaction buffer
Appearance	Liquid
Odor	No information available
Odor threshold	No information available
рН	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

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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 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)					



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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

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.

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16. OTHER INFORMATION

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

Prepared by: Regulat		ory Department
	Biotium	Inc.
Version no.	2	
Reason for revision	n	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.

2.	HAZARDS IDENTIFICATION
Classificat	ion according to Regulation (EC) No 1272/2008[CLP]
None	
Classificati	ion according to Directive 1999/45/EC
None	
Labelling a	according to Regulation (EC) No 1272/2008[CLP]
Hazard pic	togram None
Signal wor	d None
Hazard star	tements None
Precaution	ary statements None
HMIS Class	sification
Health haza	ard: 0
Flammabilit	y: 0
Physical ha	zards: 0
NFPA Ratir	ıg
Health haza	ard: 0
Fire: 0	
Reactivity H	łazard: 0

		Name	CAS	EC	Index	Weight	Classification	Classification	
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	No.	No.	No.	%	according to 67/548/EEC	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. **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.



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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 Sodium Azide

CAS no.	26628-22-8	
country	Austria	Relaium

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).

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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
рН	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. Materials to avoid No data available Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - no data available



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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 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 available

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Mobility 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 transportationUN numbernoneUN proper shipping namenoneTransport hazard classnonePacking groupnoneEnvironmental hazardsnoneSpecial precaution for usernone

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.
 4

 Reason for revision
 Application of CLP labeling and corresponding requirements

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Supplier of fluorescent and related biochemical reagents for life science research and drug discovery Glowing Products for Science TM

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