

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

MATERIAL SAFETY DATA SHEET

Date Revised: November 11, 2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AccuBlue Broad Range Buffer
Catalog Number:	99973 / 99975
Unit Size:	250 mL / 50 mL
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

2. HAZARDS IDENTIFICATION

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

Labeling 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

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

^{3.} COMPOSITION/INFORMATION ON INGREDIENTS No ingredients present at concentrations classified as hazardous to health or the environment.



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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 4°C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parametersSubstancenoneCAS 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**



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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	AccuBlue Broad Range
	Buffer
Appearance	Clear liquid
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	Water soluble
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** No data available. **Materials to avoid** No data available **Hazardous decomposition products** No data available Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION



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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**

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 availableAdditional informationno 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) not dangerous 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
 Removed composition of ingredients table and replaced with statement.

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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MATERIAL SAFETY DATA SHEET

Date Revised: July 10, 2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AccuBlue Broad Range Dye, 100X in DMSO
Catalog Number:	99974
Unit Size:	1 mL
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

2. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008[CLP] (DTT) Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Acute Tox. 4

Classification according to Directive 1999/45/EC

R-phrase(s)	
R36/37/38 S-phrase(s)	Irritating to eyes, respiratory system and skin
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical
	advice
S37/39	Wear suitable gloves and eye/face protection

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



Signal word

Warning, Danger

Hazard statements

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H302 Harmful if swallowed

Precautionary statements

P264 Wash hands thoroughly after handling. P280 Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 IF ON SKIN: wash with plenty of soap and water. P332+P313 IF SKIN irritation occurs: Get medical advice/attention. P362 Take off contaminated clothing and wash before reuse. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 IF eye irritation persists: Get medical advice/attention. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P271 Use only outdoors or in a well-ventilated area. P304+P340 IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up. P501 Dispose of contents/container to hazardous waste. P270 Do not eat, drink or smoke when using this product. P301+P312 IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container to hazardous waste. P312 Call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container to hazardous waste. P312 Call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container to hazardous waste. P312 Call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container to hazardous waste. P312 Call a POISON CENTER or doctor/physician IF you feel unwell. P330 Rinse mouth. P501 Dispose of contents/container to hazardous waste. P312 Call a POISON CENTER or doctor/physician if you feel unwell.

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HMIS Classification Health hazard: 0 Flammability: 2 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 2 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
Dimethylsulfoxide (DMSO)	67-68-5	200-664-3	N/A	<u>≥</u> 1%	N/A	Skin Irrit. 2 Eye Irrit. 2 STOT SE 3 Acute Tox. 4

4. FIRST- AID MEASURES

General advice

Remove affected clothing and launder before reuse.

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 4° C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Substance Dimethylsulfoxide CAS no. 67-68-5

country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value,8hours	160mg/m3	-	160mg/m3	-	-	160mg/m3
Limit value, short term	-	-	320mg/m3	-	-	320mg/m3

country	Hungary	Italy	Poland	Spain	Sweden	Netherlands	Switzerland
Limit	-	-	-	-	160mg/m3	-	160 mg/m ³
value,8hours							
Limit value,	-	-	-	-	500mg/m3	-	320 mg/m ³
short term					_		_

country	United Kingdom	USA- NIOSH	USA- OSHA	Australia	Canada	Japan	South Korea
Limit value,8hours	-	-	-	-	-	-	-
Limit value, short term	-	-	-	-	-	-	-

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	AccuBlue Broad Range
	Dye
Appearance	Liquid
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	Water soluble
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, sulfur oxides Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Acute toxicityDMSO	
Oral LD50	rat - 14,500 mg/kg
Inhalation LC50	Inhalation - rat - 4 h - 40250 ppm
Dermal LD50	rabbit - > 5,000 mg/kg
Other informati	on on acute toxicity no data available
Skin corrosion/irritation	no data available
Serious eye damage/eye	irritation no data available
Respiratory or skin sense	itization no data available
Germ cell mutagenicity	no data available
Carcinogenicity	
IARC: No component of the	is product present at levels greater than or equal to 0.1% is identified as
probable, possible or cont	irmed human carcinogen by IARC.



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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: PV6210000 (DMSO)

12. ECOLOGICAL INFORMATION

Toxicity The LC50(96hrs) for ten species of fish range from 32500 to 43000ppmPersistence and degradabilityno information availableBiodegradationDimethyl sulfoxide: biodegradation: 90% (28d).Mobility in soilno information availableResults of PBT and vPvB assessmentno information availableOther adverse effectsno information availableAdditional 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)flammable liquids, n.o.s. (dimethylsulfoxide solution)UN numberUN1993UN proper shipping namedimethylsulfoxide solutionTransport hazard class3Packing groupIIIEnvironmental hazardsnoneSpecial precaution for usernone

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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: Acute Health Hazard: Yes Chronic Health Hazard: No Fire Hazard: Yes Sudden Release of Pressure Hazard: No Reactive Hazard: No

16. OTHER INFORMATION

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

 Prepared by:
 Regulatory Department Biotium Inc.

 Version no.
 3

 Reason for revision
 Addition of transport information for DMSO.

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MATERIAL SAFETY DATA SHEET

Date Revised: October 17, 2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	AccuBlue Broad Range Enhancer, 100X in water
Catalog Number:	99943
Unit Size:	1 mL
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

2. HAZARDS IDENTIFICATION

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

Labeling 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
-		-	-	-	-	-

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**



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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 4° C.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parametersSubstancenoneCAS no.noneControl parametersNone

Personal protective equipment

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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

<u> </u>	
Chemical Name	AccuBlue Broad Range
	Enhancer, 100X in water
Appearance	Blue liquid
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	Water soluble
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 No data available. Materials to avoid No data available Hazardous decomposition products No data available



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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 a	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	l 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 availableAdditional 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 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. 1 Reason for revision not applicable

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