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

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: October 13, 2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	RNA Broad Range Buffer
Catalog Number:	99849, 99849-T
Unit Size:	250 mL, 50 mL
Manufacturer/Supplier:	Biotium, Inc.
	46117 Landing Parkway, Fremont, CA 94538, USA
	Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Web: http://www.biotium.com

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

# 2. HAZARDS IDENTIFICATION

	GHS Classification Signal word Health hazards Physical hazards statements Precautionary statem WHMIS classification GHS hazard pictoge	None	rd None None	
	HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0			
	Classification accord Classification accord		lation (EC) No 1272/2008[CLP] tive 1999/45/EC None	None
	Labeling according to Hazard pictogram Signal word Hazard statements Precautionary statem	None None None	n <b>(EC) No 1272/2008[CLP]</b> None	
(	COMPOSITION/INFOR	MATION ON	IINGREDIENTS	

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

4. FIRST- AID MEASURES

#### General advice

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

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

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

3.



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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 parameters None

Personal protective equipment

### Hand protection

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

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

#### Eye protection

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

#### Hygiene measures

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	RNA Broad Range Buffer
Appearance	Pale blue liquid
Odor	No data available
Odor threshold	No data available
рН	No data available
Melting point/freezing point	No data available

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Boiling point       No data available         Flash point       No data available         Evaporate rate       No data available         Flammability       No data available         Flammability       No data available         Explosive limits       No data available         Vapor pressure       No data available         Vapor density       No data available         Relative density       No data available         Solubility       Water soluble         Partition coefficient:n-octanol/water       No data available         Auto-ignition temperature       No data available         Viscosity       No data available         Explosive properties       No data available		
Evaporate rate       No data available         Flammability       No data available         Explosive limits       No data available         Vapor pressure       No data available         Vapor density       No data available         Relative density       No data available         Solubility       Water soluble         Partition coefficient:n-octanol/water       No data available         Auto-ignition temperature       No data available         Decomposition temperature       No data available         Viscosity       No data available         Explosive properties       No data available	Boiling point	No data available
Flammability       No data available         Explosive limits       No data available         Vapor pressure       No data available         Vapor density       No data available         Relative density       No data available         Solubility       Water soluble         Partition coefficient:n-octanol/water       No data available         Auto-ignition temperature       No data available         Decomposition temperature       No data available         Viscosity       No data available         Explosive properties       No data available	Flash point	No data available
Explosive limits         No data available           Vapor pressure         No data available           Vapor density         No data available           Relative density         No data available           Solubility         Water soluble           Partition coefficient:n-octanol/water         No data available           Auto-ignition temperature         No data available           Decomposition temperature         No data available           Viscosity         No data available           Explosive properties         No data available	Evaporate rate	No data available
Vapor pressureNo data availableVapor densityNo data availableRelative densityNo data availableSolubilityWater solublePartition coefficient:n-octanol/waterNo data availableAuto-ignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo data availableExplosive propertiesNo data available		No data available
Vapor densityNo data availableRelative densityNo data availableSolubilityWater solublePartition coefficient:n-octanol/waterNo data availableAuto-ignition temperatureNo data availableDecomposition temperatureNo data availableViscosityNo data availableExplosive propertiesNo data available	Explosive limits	No data available
Relative density       No data available         Solubility       Water soluble         Partition coefficient:n-octanol/water       No data available         Auto-ignition temperature       No data available         Decomposition temperature       No data available         Viscosity       No data available         Explosive properties       No data available	Vapor pressure	No data available
Solubility     Water soluble       Partition coefficient:n-octanol/water     No data available       Auto-ignition temperature     No data available       Decomposition temperature     No data available       Viscosity     No data available       Explosive properties     No data available	Vapor density	No data available
Partition coefficient:n-octanol/water     No data available       Auto-ignition temperature     No data available       Decomposition temperature     No data available       Viscosity     No data available       Explosive properties     No data available	Relative density	No data available
Auto-ignition temperature     No data available       Decomposition temperature     No data available       Viscosity     No data available       Explosive properties     No data available	Solubility	Water soluble
Decomposition temperature         No data available           Viscosity         No data available           Explosive properties         No data available	Partition coefficient:n-octanol/water	No data available
Viscosity         No data available           Explosive properties         No data available	Auto-ignition temperature	No data available
Explosive properties No data available	Decomposition temperature	No data available
		No data available
Oxidizing properties No data available	Explosive properties	No data available
	Oxidizing properties	No data available

## 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Heat, flames and sparks. Materials to avoid No data available Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. 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.



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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.

# 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name None
 Image: Constraint of the state of t

## 15. REGULATION INFORTMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found.

WHMIS Hazard Class None

#### 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008 Refer to section 2 and section 3

 

 Prepared by:
 Regulatory Department Biotium Inc.

 Version no.
 2

 Revision date (Initials)
 October 13, 2019 (LR)

 Reason for revision
 Application of WHMIS labeling requirements

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

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# SAFETY DATA SHEET

Date: October 13, 2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	RNA Broad Range Dye, 200X		
Catalog Number:	99848/99848-T		
Unit Size:	1 mL/200 uL		
Manufacturer/Supplier:	Biotium, Inc.		
	46117 Landing Parkway, Fremont, CA 94538, USA		
	Phone: 1-510-265-1027, Fax: 1-510-265-1352		
	Web: http://www.biotium.com		

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

# 2. HAZARDS IDENTIFICATION

 GHS Classification

 Signal word
 None

 Health hazards
 None

 Physical hazards
 None

 Hazard statements
 None

 Precautionary statements
 None

 WHMIS classification
 Flammable liquids, category 4

 GHS hazard pictogram
 None

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

HMIS Classification Health hazard: 0 Flammability: 2 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 2 Reactivity Hazard: 0

Labeling according to Regulation (EC) No 1272/2008[CLP]Hazard pictogramNoneSignal wordNone HazardstatementsNonePrecautionary statementsNone

# 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	67-68-5	200-664-3	-	>99%	N/A	N/A

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 parameters 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 value,8hours	-	-	-	-	150mg/m3	-	160mg/m3
Limit value, short term	-	-	-	-	500mg/m3	-	320mg/m3

country	United	USA-	USA-	Australia	Canada	Japan	South
	Kingdom	NIOSH	OSHA				

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							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.

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	RNA Broad Range Dye, 200X
Appearance	Blue liquid
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	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

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Other decomposition products - no data available

11. TOXICOLOGICAL INFORMATION

Inhalation LC50 Dermal LD50	rritation No data available		
probable, possible or confirm ACGIH: No component of the carcinogen or potential carcon NTP: No component of this or anticipated carcinogen by	product present at levels greater than or equal to 0.1% is identified as a known y NTP. is product present at levels greater than or equal to 0.1% is identified as a		
	Not considered to be directly embryotoxic and has been shown to be a successful cryoprotectant for mammalian semen and embryos		
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: PV621000 (DMSO)			

# 12. ECOLOGICAL INFORMATION

Toxicity DMSOThe LC50(96hrs) for ten species of fish range from 32500 to 43000ppmPersistence 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

# Waste treatment methods

# Product

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber by a licensed disposal company.

#### Contaminated packaging

Dispose of as unused product.

# 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name None
 Transport hazard class

 Transport hazard class
 None

 Packing group
 None

 Environmental hazards
 None

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

 Special precaution for user
 None

# 15. REGULATION INFORTMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: DMSO : fire hazard, chronic health hazard Acute Health Hazard: Yes Chronic Health Hazard: No Fire Hazard: Yes Sudden Release of Pressure Hazard: No Reactive Hazard: No

## WHMIS Hazard Class:

Flammable liquids, category 4

# 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008 Refer to section 2 and section 3

Prepared by:	Regulatory Department	
	Biotiu	m Inc.
Version no.	2	
Revision date (Initials)		October 13, 2019 (LR)
Reason for revis	ion	Application of WHMIS labeling requirements

The information provided above is believed to be correct to our best knowledge, but does not purport to be all inclusive, and shall be used only as a guide. This material is sold for research purposes only and is not required to appear on the TSCA inventory. It is not intended for food, drug, household, agricultural or cosmetic use. Its use must



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be supervised by a technically qualified individual experienced in handling potentially hazardous chemicals. Biotium shall not be held liable for any damage resulting from handling or contact with the above product.

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# SAFETY DATA SHEET

Date: February 19, 2021

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	RNA Broad Range Standard, 100 ng/uL	
Catalog Number:	99850	
Unit Size:	300 uL	
Manufacturer/Supplier:	Biotium, Inc.	
	46117 Landing Parkway, Fremont, CA 94538, USA	
	Phone: 1-510-265-1027, Fax: 1-510-265-1352	
	Web: http://www.biotium.com	

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

# 2. HAZARDS IDENTIFICATION

GHS Classification Signal word Health hazards Physical hazards statements Precautionary statem WHMIS classification GHS hazard pictogr	None	<b>rd</b> None None	
HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0			
Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None			
Labeling according to Hazard pictogram Signal word Hazard statements Precautionary statem	None None None	n <b>(EC) No 1272/2008[CLP]</b> None	
COMPOSITION/INFORI	MATION ON	I INGREDIENTS	

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

4. FIRST- AID MEASURES

General advice
Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
In case of skin contact
Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

3.



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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 or below.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# Components with workplace control parameters None

Personal protective equipment

#### Hand protection

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

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

### Eye protection

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

#### Hygiene measures

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	RNA Broad Range Standard, 100 ng/uL
Appearance	Clear liquid
Odor	No data available
Odor threshold	No data available
pH	No data available
Melting point/freezing point	No data available

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Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient:n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

#### 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Heat, flames and sparks. Materials to avoid No data available Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. 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.



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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.

# 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name None
 Image: Constraint of the state of t

## 15. REGULATION INFORTMATION

US Federal Regulations US Toxic Substances Control Act (TSCA): Not listed SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Hazards: No chemicals were found.

WHMIS Hazard Class None

#### 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008 Refer to section 2 and section 3

Prepared by:Regulatory Department<br/>Biotium Inc.Version no.3Revision date (Initials)February 19, 2021 (ASM)<br/>Storage temperature change

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.

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

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# SAFETY DATA SHEET

Date: October 13, 2019

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	RNA Dilution Buffer
Catalog Number:	99851, 99851-T
Unit Size:	5 mL, 1 mL
Manufacturer/Supplier:	Biotium, Inc.
	46117 Landing Parkway, Fremont, CA 94538, USA
	Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Web: http://www.biotium.com

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

# 2. HAZARDS IDENTIFICATION

Health hazards N Physical hazards N	None	<b>d</b> None None	
HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0			
Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None			
Hazard pictogram	None None None	(EC) No 1272/2008[CLP] None	
COMPOSITION/INFORMATION ON INGREDIENTS			

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

4. FIRST- AID MEASURES

General advice

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

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

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

3.



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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 parameters None

Personal protective equipment

#### Hand protection

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

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

### Eye protection

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

#### Hygiene measures

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

# 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	RNA Dilution Buffer
Appearance	Clear liquid
Odor	No data available
Odor threshold	No data available
рН	7.5
Melting point/freezing point	No data available

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Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	Water soluble
Partition coefficient:n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

## 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions No data available Conditions to avoid Heat, flames and sparks. Materials to avoid No data available Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides Other decomposition products - No data available

# 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. 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.



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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.

# 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name 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.

WHMIS Hazard Class None

#### 16. OTHER INFORMATION

Classification according to Regulation (EC) Nr. 1272/2008 Refer to section 2 and section 3

 

 Prepared by:
 Regulatory Department Biotium Inc.

 Version no.
 2

 Revision date (Initials)
 October 13, 2019 (LR)

 Reason for revision
 Application of WHMIS labeling requirements

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