

SAFETY DATA SHEET

# CytoLiner<sup>™</sup> Fixed Cell Membrane Stain

### **SECTION 1: Identification**

### 1.1. Product identifier

### Trade name

CytoLiner<sup>™</sup> Fixed Cell Membrane Stain

### Other names / Synonyms

30131-T: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Stain, 250 Labelings 30131: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Stain, 1000 Labelings 30132-T: CytoLiner<sup>™</sup> 495/510 Fixed Cell Membrane Stain, 250 Labelings 30132: CytoLiner<sup>™</sup> 495/510 Fixed Cell Membrane Stain, 1000 Labelings 30133-T: CytoLiner<sup>™</sup> 570/590 Fixed Cell Membrane Stain, 250 Labelings 30133: CytoLiner<sup>™</sup> 570/590 Fixed Cell Membrane Stain, 1000 Labelings 30134-T: CytoLiner<sup>™</sup> 650/675 Fixed Cell Membrane Stain, 250 Labelings 30134-T: CytoLiner<sup>™</sup> 650/675 Fixed Cell Membrane Stain, 250 Labelings 30135-T: CytoLiner<sup>™</sup> 680/710 Fixed Cell Membrane Stain, 250 Labelings 30135-T: CytoLiner<sup>™</sup> 680/710 Fixed Cell Membrane Stain, 250 Labelings

### Kit Components:

30131A-200UL: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Dye, 200 uL 30131A-50UL: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Dye, 50 uL 30132A-200UL: CytoLiner<sup>™</sup> 495/510 Fixed Cell Membrane Dye, 200 uL 30133A-200UL: CytoLiner<sup>™</sup> 495/510 Fixed Cell Membrane Dye, 50 uL 30133A-200UL: CytoLiner<sup>™</sup> 570/590 Fixed Cell Membrane Dye, 200 uL 30133A-50UL: CytoLiner<sup>™</sup> 650/675 Fixed Cell Membrane Dye, 50 uL 30134A-200UL: CytoLiner<sup>™</sup> 650/675 Fixed Cell Membrane Dye, 200 uL 30134A-50UL: CytoLiner<sup>™</sup> 650/675 Fixed Cell Membrane Dye, 50 uL 30135A-200UL: CytoLiner<sup>™</sup> 680/710 Fixed Cell Membrane Dye, 200 uL 30135A-50UL: CytoLiner<sup>™</sup> 680/710 Fixed Cell Membrane Dye, 200 uL

99890-1ML: CytoLiner<sup>™</sup> Fixed Cell Staining Buffer, 100X, 1 mL Product no.

30131-T, 30131, 30132-T, 30132, 30133-T, 30133, 30134-T, 30134, 30135-T, 30135

1.2. Relevant identified uses of the substance or mixture and uses advised against Relevant identified uses of the substance or mixture

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

### Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

### Company and address

### Biotium, Inc.

46117 Landing Parkway CA 94538 Fremont USA T: +1 510-265-1027 Fax: +1 510-265-1352 http://www.biotium.com E-mail techsupport@biotium.com SDS date 7/30/2024 SDS Version



<ul> <li>1.0</li> <li>Date of previous version 7/26/2024 (1.0)</li> <li>1.4. Emergency telephone number Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case See also section 4 "First aid measures".</li> </ul>
SECTION 2: Hazard(s) identification
<ul> <li>2.1. Classification of the substance or mixture See individual kit component SDS attached. Not classified according to HCS (29 CFR 1910.1200)</li> <li>2.2. Label elements See individual kit component SDS attached. Hazard pictogram(s) Not applicable.</li> <li>Signal word Not applicable. Hazard statement(s) Precautionary statement(s) General Prevention Response Josposal Additional labelling Not applicable.</li> <li>2.3. Other hazards See individual kit component SDS attached.</li> </ul>

SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Does not contain any substances required to report

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

See individual kit component SDS attached.

### SECTION 4: First-aid measures

### 4.1. Description of first aid measures

### General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).



Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

### Inhalation

In case of discomfort: bring the person into fresh air.

### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

### Eye contact

Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.

### Ingestion

Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

### Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed None known.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice. Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

### SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

### Recommended storage material

No specific requirements



Incompatible materia No specific require 7.3. Specific end use(s)	ls		storage conditions for each kit component.
SECTION 8: Exposure co	ntrols/personal protection	I	
<ul> <li>8.1. Control parameters <ul> <li>No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)</li> </ul> </li> <li>8.2. Exposure controls <ul> <li>Apply general control to prevent unnecessary exposure</li> <li>General recommendations <ul> <li>Smoking, drinking and consumption of food is not allowed in the work area.</li> </ul> </li> <li>Exposure scenarios <ul> <li>There are no exposure scenarios implemented for this product.</li> </ul> </li> <li>Exposure limits <ul> <li>Occupational exposure limits have not been defined for the substances in this product.</li> </ul> </li> <li>Appropriate technical measures <ul> <li>Apply standard precautions during use of the product. Avoid inhalation of vapours.</li> <li>Hygiene measures</li> <li>Wash hands after use.</li> </ul> </li> <li>Measures to avoid environmental exposure <ul> <li>No specific requirements.</li> </ul> </li> <li>Individual protection measures, such as personal protective equipment</li> <li>Generally</li> <li>Use only protective equipment with a recognized certification mark, e.g. the UL mark.</li> </ul> </li> </ul>			
Respiratory Equipmer <b>Type</b>	Class	Colour	Standards
Not required; excep case of aerosol formation.	t in		N/A
Skin protection No specific require	ments.		
Hand protection			
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Handle with gloves. Gloves must be inspected prior to us Use proper glove removal technique	se.		

(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.

### Eye protection



# TypeStandardsSafety glasses withEN166

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).



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state
Liquid
Colour
No data available
Odour
No data available
Odour threshold (ppm)
No data available
рН
No data available
Density (g/cm <sup>3</sup> )
No data available
Relative density
No data available
Kinematic viscosity
No data available
Particle characteristics
No data available
Phase changes
Melting point (°F)
No data available
Softening point/range (°F)
Does not apply to liquids.
Boiling point (°F)
No data available
Vapour pressure
No data available
Relative vapour density
No data available
Decomposition temperature (°F)
No data available
Data on fire and explosion hazards
Flash point (°F)
No data available
Flammability (°F)
No data available
Auto-ignition temperature (°F)
No data available
Explosion limits (% v/v)
No data available
Solubility
Solubility in water
Soluble
n-octanol/water coefficient (LogKow)



No data available Solubility in fat (q/L) No data available 9.2. Other information Evaporation rate (n-butylacetate = 100) No data available Other physical and chemical parameters No data available. Oxidizing properties No data available SECTION 10: Stability and reactivity 10.1. Reactivity No data available. 10.2. Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage". 10.3. Possibility of hazardous reactions None known. 10.4. Conditions to avoid Heat, flames and sparks. 10.5. Incompatible materials No specific requirements 10.6. Hazardous decomposition products The product is not degraded when used as specified in section 1. SECTION 11: Toxicological information 11.1. Information on toxicological effects Acute toxicity Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eve damage/irritation Based on available data, the classification criteria are not met. Respiratory sensitisation Based on available data, the classification criteria are not met. Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard

Based on available data, the classification criteria are not met. Long term effects

None known.

Other information None known.

None known.

SECTION 12: Ecological information



### 12.1. Toxicity

### No data available.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

12.3. Bioaccumulative potential

Based on available data, the classification criteria are not met.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Other adverse effects

None known.

SECTION 13: Disposal considerations

### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

### Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

### SECTION 14: Transport information

	14.1 UN / 3	14.2 ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

### \* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to DOT, IATA and IMDG.

- 14.6. Special precautions for user
  - Not applicable.
- 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code No data available.

### SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. U.S. Federal regulations

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TSCA (the non-confidential portion)
None of the components are listed
Clean Air Act
None of the components are listed
EPCRA Section 302
None of the components are listed
EPCRA Section 304
None of the components are listed
EPCRA section 313
None of the components are listed
CERCLA
None of the components are listed
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# State regulations

California / Prop. 65



None of the components are listed

Massachusetts / Right To Know Act

None of the components are listed

New Jersey / Right To Know Act None of the components are listed

New York / Right To Know Act

None of the components are listed

Pennsylvania / Right To Know Act None of the components are listed

15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education No specific requirements.

15.6. Additional information Not applicable.

15.7. Chemical safety assessment

No 15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

SECTION 16: Other information

# The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CERCLA = Comprehensive Environmental Response Compensation and Liability Act DOT = Department of Transportation EINECS = European Inventory of Existing Commercial chemical Substances EPCRA = Emergency Planning and Community Right-To-Know Act GHS = Globally Harmonized System of Classification and Labelling of Chemicals HCIS = Hazardous Chemical Information System HNOC = Hazards Not Otherwise Classified IARC = International Agency for Research on Cancer IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health OECD = Organisation for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration PBT = Persistent, Bioaccumulative and Toxic RCRA = Resource Conservation and Recovery Act RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SARA = Superfund Amendments and Reauthorization Act SCL = A specific concentration limit. STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TSCA = The Toxic Substances Control Act TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials



VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### Additional information

In accordance with HCS (29 CFR 1910.1200(g)), a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.

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.

### The safety data sheet is validated by

Eric Torres

### Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en

SAFETY DATA SHEET

# CytoLiner<sup>™</sup> Fixed Cell Membrane Dye, 500X in DMSO

### **SECTION 1: Identification**

### 1.1. Product identifier

### Trade name

CytoLiner<sup>™</sup> Fixed Cell Membrane Dye, 500X in DMSO

### Other names / Synonyms

30131A-200UL: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Dye, 200 uL 30131A-50UL: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Dye, 50 uL 30131A-10UL: CytoLiner<sup>™</sup> 410/450 Fixed Cell Membrane Dye, 10 uL 30132A-200UL: CytoLiner™ 495/510 Fixed Cell Membrane Dye, 200 uL 30132A-50UL: CytoLiner™ 495/510 Fixed Cell Membrane Dye, 50 uL 30132A-10UL: CytoLiner<sup>™</sup> 495/510 Fixed Cell Membrane Dye, 10 uL 30133A-200UL: CytoLiner™ 570/590 Fixed Cell Membrane Dye, 200 uL 30133A-50UL: CytoLiner<sup>™</sup> 570/590 Fixed Cell Membrane Dye, 50 uL 30133A-10UL: CytoLiner™ 570/590 Fixed Cell Membrane Dye, 10 uL 30134A-200UL: CytoLiner™ 650/675 Fixed Cell Membrane Dye, 200 uL 30134A-50UL: CytoLiner<sup>™</sup> 650/675 Fixed Cell Membrane Dye, 50 uL 30134A-10UL: CytoLiner™ 650/675 Fixed Cell Membrane Dye, 10 uL 30135A-200UL: CytoLiner™ 680/710 Fixed Cell Membrane Dye, 200 uL 30135A-50UL: CytoLiner<sup>™</sup> 680/710 Fixed Cell Membrane Dye, 50 uL 30135A-10UL: CytoLiner<sup>™</sup> 680/710 Fixed Cell Membrane Dye, 10 uL

### Product no.

30131A-200UL, 30131A-50UL, 30131A-10UL, 30132A-200UL, 30132A-50UL, 30132A-10UL, 30133A-200UL, 30133A-50UL, 30133A-10UL, 30134A-200UL, 30134A-50UL, 30134A-10UL, 30135A-200UL, 30135A-50UL, 30135A-10UL Other means of identification

# CAS No.: 67-68-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

### Relevant identified uses of the substance or mixture

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

### Uses advised against None known.

# 1.3. Details of the supplier of the safety data sheet

# Company and address

**Biotium**, Inc. 46117 Landing Parkway CA 94538 Fremont USA T: +1 510-265-1027 Fax: +1 510-265-1352 http://www.biotium.com F-mail techsupport@biotium.com SDS date 7/26/2024

### **SDS Version**

1.0

### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org) to get specific guidance for your case



See also section 4 "First aid measures".

SECTION 2: Hazard(s) identification

```
2.1. Classification of the substance or mixture
  Not classified according to HCS (29 CFR 1910.1200)
2.2. Label elements
  Hazard pictogram(s)
     Not applicable.
  Signal word
     Not applicable.
  Hazard statement(s)
  Precautionary statement(s)
     General
      Prevention
      Response
     Storage
     Disposal
  Additional labelling
     Not applicable.
2.3. Other hazards
```

2.5. Other fidzarus

SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Does not contain any substances required to report

### 3.2. Mixtures

Not applicable. This product is a substance.

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

### SECTION 4: First-aid measures

### 4.1. Description of first aid measures

### General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

### Inhalation

In case of discomfort: bring the person into fresh air.

### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

Eye contact

Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.

Ingestion



Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

### Burns

Not applicable.

### 4.2. Most important symptoms and effects, both acute and delayed

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Sulphur oxides

Carbon oxides (CO / CO2)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice. Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact during pregnancy and while nursing. Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

### Recommended storage material

No specific requirements

### Storage conditions

Protect from light.



Incompatible materials				
Refrigerator 2°C to 8°C. Incompatible materials No specific requirements 7.3. Specific end use(s) This product should only be used for applications quoted in section 1.2.				
SECTION 8: Exposure con	trols/personal protectior	1		
<ul> <li>8.1. Control parameters <ul> <li>No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)</li> </ul> </li> <li>8.2. Exposure controls <ul> <li>Apply general control to prevent unnecessary exposure</li> <li>General recommendations</li> <li>Smoking, drinking and consumption of food is not allowed in the work area.</li> </ul> </li> <li>Exposure scenarios <ul> <li>There are no exposure scenarios implemented for this product.</li> </ul> </li> <li>Exposure limits <ul> <li>Occupational exposure limits have not been defined for the substances in this product.</li> </ul> </li> <li>Apply standard precautions during use of the product. Avoid inhalation of vapours.</li> <li>Hygiene measures <ul> <li>Wash hands after use.</li> </ul> </li> <li>Measures to avoid environmental exposure <ul> <li>No specific requirements.</li> </ul> </li> <li>Individual protection measures, such as personal protective equipment</li> <li>Generally <ul> <li>Use only protective equipment with a recognized certification mark, e.g. the UL mark.</li> </ul> </li> </ul>				
Respiratory Equipment	<b>c</b> l	<u> </u>		
Туре	Class	Colour	Standards	
Not required; except ir	ו			
case of aerosol formation.			N/A	
formation.			N/A	
	Type/Category	Standards		
formation. Skin protection	Type/Category -	Standards -		
formation. Skin protection Recommended No specific	Type/Category -	Standards -		
formation. Skin protection Recommended No specific requirements.	Type/Category - Glove thickness (mm)	Standards - Breakthrough time (min.)		

Eye protection



# TypeStandardsSafety glasses with<br/>side statedEN166

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).



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state
Liquid
Colour Various colours
Odour
No data available
Odour threshold (ppm)
No data available
рН
No data available
Density (g/cm³) No data available
Relative density
No data available
Kinematic viscosity
No data available
Particle characteristics
No data available
Phase changes Melting point (°F)
No data available
Softening point/range (°F)
Does not apply to liquids.
Boiling point (°F)
No data available
Vapour pressure
No data available Relative vapour density
No data available
Decomposition temperature (°F)
No data available
Data on fire and explosion hazards
Flash point (°F)
No data available
Flammability (°F) No data available
Auto-ignition temperature (°F)
No data available
Explosion limits (% v/v)
No data available
Solubility
Solubility in water Soluble
n-octanol/water coefficient (LogKow)



No data available Solubility in fat (q/L) No data available 9.2. Other information Evaporation rate (n-butylacetate = 100) No data available Other physical and chemical parameters No data available. **Oxidizing properties** No data available

SECTION 10: Stability and reactivity

### 10.1. Reactivity

# No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

### None known.

### 10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure. Heat, flames and sparks.

10.5. Incompatible materials No specific requirements

10.6. Hazardous decomposition products The product is not degraded when used as specified in section 1.

### SECTION 11: Toxicological information

# 11.1. Information on toxicological effects

11.1. Information on toxicological effects		
Acute toxicity		
Product/substance Test method: Species: Route of exposure: Test: Result:	Dimethyl sulfoxide OECD 401 Rat, male/female Oral LD50 28,300 mg/kg	
Product/substance Test method: Species: Route of exposure: Test: Result:	Dimethyl sulfoxide OECD 403 Rat, male/female Inhalation LC50 4h - > 5.33 mg/L	
Product/substance Species: Route of exposure: Test: Result:	Dimethyl sulfoxide Rat, male/female Dermal LD50 40,000 mg/kg	
Skin corrosion/irritation		
Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 404 Rabbit Slight irritation 4 h	
Serious eye damage/irrita Product/substance Test method: Species:	tion Dimethyl sulfoxide OECD 405 Rabbit	



	Description:	Slight irritation - 24 h
Re	Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 406 Guinea pig Negative
	Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 429 Mouse Negative
Sk	in sensitisation Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 406 Guinea pig Negative
	Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 429 Mouse Negative
Ge	erm cell mutagenicity Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 471 S. typhimurium Negative
	Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD Test Guideline 479 Chinese Hamster Ovary (CHO) Negative
	Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 473 Chinese Hamster Ovary (CHO) Negative
	Product/substance Test method: Species: Description:	Dimethyl sulfoxide OECD 474 Rat Negative
Ca	rcinogenicity	
Pc	Based on available data productive toxicity	, the classification criteria are not met.
ite		, the classification criteria are not met.
ST	OT-single exposure	
ст		, the classification criteria are not met.
اد	OT-repeated exposure	

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

### Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Symptoms of neurotoxicity include: loss of appetite, headache, dizziness, ringing in ears, tingling sensations of skin, sensitivity to the cold, cramps, difficulty in concentrating, tiredness, etc. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

### Other information

None known.



### SECTION 12: Ecological information

### 12.1. Toxicity

Product/substance	Dimethyl sulfoxide
Test method:	OECD 203
Species:	Fish, Danio rerio
Duration:	96 hours
Test:	LC50
Result:	25,000 mg/L

Product/substance	Dimethyl sulfoxide
Test method:	OECD 202
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	24,600 mg/L

Product/substance	Dimethyl sulfoxide
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Duration:	72 hours
Test:	ErC50
Result:	17,000 mg/L

Product/substance	Dimethyl sulfoxide
Test method:	ISO 8192
Species:	Bacteria
Compartment:	Activated Sludge Plant
Duration:	30 min.
Test:	EC50
Result:	10 - 100 mg/L

### 12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

### 12.3. Bioaccumulative potential

Product/substance	Dimethyl sulfoxide
Conclusion:	Potential for bioaccumulation
Test:	OECD Test Guideline 301D

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Other adverse effects

This product contains substances with the potential of bioaccumulation resulting in the risk of accumulation in the food chain. Bioaccumulative substances are concentrated in adipose tissue and are not easily secreted.

SECTION 13: Disposal considerations

### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information



	14.1 UN / I	14.2 D UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-
* Packing	l group					
** Enviro Addition Not o 14.6. Sp Not a 14.7. Tr	nmenta nal infor dangerc pecial pr applicab	ous goods according to DOT, IA recautions for user ole. : in bulk according to Annex II o				
SECTIC	ON 15: R	egulatory information				
15.2. U. TSCA D Clean N EPCF N EPCF N CERC N State re Califo N State re Califo N Mass N New D	S. Feder (the no imethyl n Air Act lone of t A Sectio lone of t A Sectio lone of t CLA lone of t culation ornia / F lone of t sachuse lone of t Jersey / imethyl	ral regulations on-confidential portion) sulfoxide is listed the components are listed on 302 the components are listed on 304 the components are listed on 313 the components are listed the components are listed		ostance or mixtu	re	
N Penr N 15.4. Re Restr Preg preca 15.5. De No s 15.6. Ac Not a	lone of t hsylvania lone of t estriction ricted to nant wo autions emands pecific r	or design of the workplace nee for specific education equirements. l information	ng must not be exposed to this prod eded to eliminate exposure, must be		d possib	le technical



SECTION 16: Other information

The full text of identified uses as mentioned in section 1 None known. Abbreviations and acronyms ACGIH = American Conference of Governmental Industrial Hygienists ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CERCLA = Comprehensive Environmental Response Compensation and Liability Act DOT = Department of Transportation EINECS = European Inventory of Existing Commercial chemical Substances EPCRA = Emergency Planning and Community Right-To-Know Act GHS = Globally Harmonized System of Classification and Labelling of Chemicals HCIS = Hazardous Chemical Information System HNOC = Hazards Not Otherwise Classified IARC = International Agency for Research on Cancer IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health OECD = Organisation for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration PBT = Persistent, Bioaccumulative and Toxic RCRA = Resource Conservation and Recovery Act RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SARA = Superfund Amendments and Reauthorization Act SCL = A specific concentration limit. STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TSCA = The Toxic Substances Control Act TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative Additional information In accordance with HCS (29 CFR 1910.1200(g)), a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information. 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 gualified 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. The safety data sheet is validated by **Eric Torres** Other A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a

triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en



SAFETY DATA SHEET

# CytoLiner™ Fixed Cell Staining Buffer, 100X

### **SECTION 1: Identification**

```
1.1. Product identifier
  Trade name
     CytoLiner<sup>™</sup> Fixed Cell Staining Buffer, 100X
  Other names / Synonyms
     99890-1ML: CytoLiner™ Fixed Cell Staining Buffer, 100X, 1 mL
  Product no.
     99890-1ML
1.2. Relevant identified uses of the substance or mixture and uses advised against
  Relevant identified uses of the substance or mixture
     Use as laboratory reagent. For research use only. Not for food, drug, household, or cosmetic use.
     Restricted to professional users.
  Uses advised against
     None known.
1.3. Details of the supplier of the safety data sheet
  Company and address
     Biotium, Inc.
     46117 Landing Parkway
     CA 94538 Fremont
     USA
     T: +1 510-265-1027
     Fax: +1 510-265-1352
     http://www.biotium.com
  E-mail
     techsupport@biotium.com
  SDS date
     7/26/2024
  SDS Version
     1.0
1.4. Emergency telephone number
  Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® (triage.webpoisoncontrol.org)
  to get specific guidance for your case
  See also section 4 "First aid measures".
SECTION 2: Hazard(s) identification
2.1. Classification of the substance or mixture
  Not classified according to HCS (29 CFR 1910.1200)
2.2. Label elements
  Hazard pictogram(s)
     Not applicable.
  Signal word
     Not applicable.
  Hazard statement(s)
  Precautionary statement(s)
     General
     Prevention
```



Response

Storage

Disposal

-Additional labelling

# Not applicable.

2.3. Other hazards

SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Does not contain any substances required to report

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

### SECTION 4: First-aid measures

### 4.1. Description of first aid measures

### **General** information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

### Inhalation

In case of discomfort: bring the person into fresh air.

### Skin contact

Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

### Eye contact

Rinse gently with lukewarm water. Remove any contact lenses if this is easy to do. Continue rinsing. In case of persistent eye irritation or discomfort: Seek medical help.

### Ingestion

Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.

### Burns

Not applicable.

4.2. Most important symptoms and effects, both acute and delayed

### None known.

4.3. Indication of any immediate medical attention and special treatment needed

# Treat symptomatically.

### Information to medics

Bring this safety data sheet or the label from this product.

**SECTION 5: Fire-fighting measures** 

### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist. Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.



### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice. Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area. See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Recommended storage material No specific requirements

### Storage conditions

Refrigerator 2°C to 8°C.

Incompatible materials

No specific requirements

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

### 8.2. Exposure controls

Apply general control to prevent unnecessary exposure

### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

**Exposure scenarios** 

There are no exposure scenarios implemented for this product.

**Exposure limits** 

Occupational exposure limits have not been defined for the substances in this product.

### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

Hygiene measures

Wash hands after use.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment



### Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

#### -R

Respiratory Equipment				
Туре	Class	Colour	Standards	
Not required; except in case of aerosol formation.			N/A	
Skin protection No specific requireme	ents.			
Hand protection				
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
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.				
Eye protection				
Туре	Standards			
Safety glasses with side-shields conforming to EN166.	EN166			

# SECTION 9: Physical and chemical properties

Use equipment for eye protection tested and approved under appropriate

government standards such as NIOSH (US) or

EN 166(EU).

### 9.1. Information on basic physical and chemical properties

Physical state Liquid Colour Clear Odour No data available Odour threshold (ppm) No data available рΗ 7.4 Density (g/cm<sup>3</sup>) No data available **Relative density** No data available **Kinematic viscosity** No data available





Particle characteristics No data available Phase changes Melting point (°F) No data available Softening point/range (°F) Does not apply to liquids. Boiling point (°F) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperature (°F) No data available Data on fire and explosion hazards Flash point (°F) No data available Flammability (°F) No data available Auto-ignition temperature (°F) No data available Explosion limits (% v/v) No data available Solubility Solubility in water Soluble n-octanol/water coefficient (LogKow) No data available Solubility in fat (g/L) No data available 9.2. Other information Evaporation rate (n-butylacetate = 100) No data available Other physical and chemical parameters No data available. **Oxidizing properties** No data available SECTION 10: Stability and reactivity

10.1. Reactivity No data available.
10.2. Chemical stability The product is stable under the conditions, noted in section 7 "Handling and storage".
10.3. Possibility of hazardous reactions None known.
10.4. Conditions to avoid Heat, flames and sparks.
10.5. Incompatible materials No specific requirements
10.6. Hazardous decomposition products The product is not degraded when used as specified in section 1.
SECTION 11: Toxicological information

11.1. Information on toxicological effects Acute toxicity



Based on available data, the classification criteria are not met. Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. **Respiratory sensitisation** Based on available data, the classification criteria are not met. Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard

Based on available data, the classification criteria are not met.

### Long term effects

None known.

Other information None known.

None known.

SECTION 12: Ecological information

### 12.1. Toxicity

### No data available.

12.2. Persistence and degradability

Based on available data, the classification criteria are not met.

- 12.3. Bioaccumulative potential
- Based on available data, the classification criteria are not met.
- 12.4. Mobility in soil
- No data available.
- 12.5. Results of PBT and vPvB assessment
  - This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
- 12.6. Other adverse effects None known.

SECTION 13: Disposal considerations

### RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)

None of the components are listed

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN /	14.2 ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-



	14.1 14.2 UN / ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
IATA		-	-	-	-
* Packing	group				
** Environ	imental hazards				
	al information				
	angerous goods according to DOT, IA <sup>-</sup> ecial precautions for user	TA and IMDG.			
	pplicable.				
14.7. Tra	insport in bulk according to Annex II o	f Marpol and the IBC Code			
No da	ita available.				
SECTIO	N 15: Regulatory information				
15.1. Saf	ety, health and environmental regulat	ions/legislation specific for the sub	stance or mixture	9	
	5. Federal regulations				
	(the non-confidential portion) one of the components are listed				
	Air Act				
	one of the components are listed				
	A Section 302 one of the components are listed				
	A Section 304				
No	one of the components are listed				
	A section 313				
	one of the components are listed				
CERCL No	_A one of the components are listed				
State reg	•				
Califo	rnia / Prop. 65				
	one of the components are listed				
	achusetts / Right To Know Act one of the components are listed				
	ersey / Right To Know Act				
	one of the components are listed				
	/ork / Right To Know Act				
	one of the components are listed				
	sylvania / Right To Know Act one of the components are listed				
	strictions for application				
	cted to professional users.				
	mands for specific education				
•	ecific requirements.				
	ditional information pplicable.				
-	emical safety assessment				
No	ennear survey assessmente				
15.8. Sou					
OSHA	Hazard Communication Standard (29	CFR 1910.1200)			
SECTIO	N 16: Other information				
	ext of identified uses as mentioned in				

None known.

### Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists



ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor CAS = Chemical Abstracts Service CERCLA = Comprehensive Environmental Response Compensation and Liability Act DOT = Department of Transportation EINECS = European Inventory of Existing Commercial chemical Substances EPCRA = Emergency Planning and Community Right-To-Know Act GHS = Globally Harmonized System of Classification and Labelling of Chemicals HCIS = Hazardous Chemical Information System HNOC = Hazards Not Otherwise Classified IARC = International Agency for Research on Cancer IATA = International Air Transport Association IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NFPA = National Fire Protection Association NIOSH = National Institute for Occupational Safety and Health OECD = Organisation for Economic Co-operation and Development OSHA = Occupational Safety and Health Administration PBT = Persistent, Bioaccumulative and Toxic RCRA = Resource Conservation and Recovery Act RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SARA = Superfund Amendments and Reauthorization Act SCL = A specific concentration limit. STEL = Short-term exposure limits STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure TSCA = The Toxic Substances Control Act TWA = Time weighted average UN = United Nations UVBC = Unknown or variable composition, complex reaction products or of biological materials VOC = Volatile Organic Compound vPvB = Very Persistent and Very Bioaccumulative

### Additional information

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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.

### The safety data sheet is validated by

### Eric Torres

### Other

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Country-language: US-en