

SAFETY DATA SHEET

ExoBrite[™] EV Surface Stain Sampler Kit, Green

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

ExoBrite[™] EV Surface Stain Sampler Kit, Green

Other names / Synonyms

Kit Components:

30120A-100uL: ExoBrite[™] 490/515 Annexin EV Stain, 100 uL 30124A-100: ExoBrite[™] 490/515 WGA EV Stain, 1 vial 30112A: ExoBrite[™] 490/515 CTB EV Stain, 1 vial 99878: 50X Annexin Binding Buffer, 1 mL 99879: 1X ExoBrite[™] PBS Solution, 1 mL 99858: ExoBrite[™] Reconstitution Solution, 1 mL

Product no.

30127

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.

Use descriptors (REACH)

Sectors of use	Description
SU 24	Scientific research and development
Product category	Description
PC 21	Laboratory Chemicals
Process category	Description
PROC 15	Use as laboratory reagent
Uses advised against None known.	
1.3. Details of the suppli	er of the safety data sheet
Company and addres	S
Biotium, Inc. 46117 Landing Pai CA 94538 Fremon	

USA T: +1 510-265-1027 Fax: +1 510-265-1352 http://www.biotium.com

E-mail

techsupport@biotium.com

Revision

04/03/2024 SDS Version

1.0

1.0

Date of previous version 04/03/2024 (1.0)

1.4. Emergency telephone number

Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) See also section 4 "First aid measures".



SECTION 2: Hazards identification

```
2.1. Classification of the substance or mixture
  Not classified according to Regulation (EC) No. 1272/2008 (CLP).
2.2. Label elements
  Hazard pictogram(s)
      Not applicable.
  Signal word
     Not applicable.
  Hazard statement(s)
     Not applicable.
  Precautionary statement(s)
      General
      Prevention
      Response
     Storage
      Disposal
  Hazardous substances
     None known.
  Additional labelling
     Not applicable.
2.3. Other hazards
  Additional warnings
```

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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.

Contaminated areas may be suppery.

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 temperature

Refer to section 7 of each kit component SDS (appended) for proper storage conditions for each kit component. 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	e controls/personal protection				
 8.1. Control parameters No substances are listed in the Belgium list of substances with an occupational exposure limit. 8.1. Control parameters No substances are listed in the Belgium list of substances with an occupational exposure limit. 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 See the exposure scenario appended to the safety data sheet. Ensure that the operational conditions and risk management measures in the relevant exposure scenario are complied with. Exposure limits Occupational exposure limits have not been defined for the substances in this product. 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. 					
Respiratory Equipr					
Туре	Class	Colour	Standards		
n/a	n/a	n/a	n/a		
Skin protection No specific requ	uirements.				
Hand protection			Chandauda		
Material	Glove thickness (mm)	Breakthrough time (min.)	Standards		
Handle with glov Gloves must be inspected prior t Use proper glove removal techniqu (without touchin glove's outer sur to avoid skin con	o use. e ue g face)				

(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

∟y	e protection		
	Туре	Standards	
	Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate	EN166	\bigcirc



P	According to EC-Regulation 1907/2	006 (REACH), annex II, including changes implement
	Type S	tandards
	government standards such as NIOSH (US) or EN 166(EU).	
	SECTION 9: Physical and che	nical properties
	9.1. Information on basic phy Physical state Liquid Colour No data available Odour / Odour threshold No data available pH - pH in solution 7.4 (%)	sical and chemical properties
	7.4 (%) Density (g/cm ³) No data available Relative density No data available Kinematic viscosity No data available Particle characteristics No data available Phase changes Melting point/Freezing poi No data available	nt (°C)
	Softening point/range (way Does not apply to liquid Boiling point (°C) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperatur No data available	S.
	Data on fire and explosion ha Flash point (°C) No data available Flammability (°C) No data available Auto-ignition temperature No data available Lower and upper explosion No data available	(°C)
	Solubility Solubility in water Soluble in water n-octanol/water coefficient No data available Solubility in fat (g/L) No data available 9.2. Other information Evaporation rate (n-butylac No data available	-

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 hazard classes as defined in Regulation (EC) No 1272/2008

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.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.



Base 12.3. Bio Base 12.4. Mo No d 12.5. Re This 12.6. En This to the 12.7. Ot	 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. Endocrine disrupting properties This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment. 12.7. Other adverse effects None known. 					
SECTIC	N 13: Disposal considerations					
Prod Com EWC N Contam Pack	aste treatment methods uct is not covered by regulation mission Regulation (EU) No 13 code ot applicable. inated packing aging containing residues of t N 14: Transport information	57/2014 of 18 Decemb	oer 2014 on waste.	o the product.		
	14.1 14.2 UN / ID UN proper shipping ı	14.3 Hazar	rd class(es)	14.4 PG*	14.5 Env**	Other information:
ADR		-		-	-	-
IMDG		_		_	-	-
ΙΑΤΑ		_		-	-	_
Addition Not o 14.6. Sp Not a 14.7. Ma	group mental hazards nal information langerous goods according to ecial precautions for user upplicable. aritime transport in bulk account ata available.					
SECTIC	N 15: Regulatory information					
Restr Re Dem N SEVE N Addit N Sour Co	fety, health and environment ictions for application estricted to professional users ands for specific education o specific requirements. 50 - Categories / dangerous s ot applicable. ional information ot applicable. ces ommission Regulation (EU) No egulation (EC) No 1272/2008 of assification, labelling and pac	ubstances 1357/2014 of 18 Dece f the European Parlian	ember 2014 on waste nent and of the Cour	e.		on



Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1 SU 24 = Scientific research and development PROC 15 = Use as laboratory reagent PC 21 = Laboratory Chemicals Abbreviations and acronyms 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 CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EuPCS = European Product Categorisation System EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container 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) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure 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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 quide. 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 blue



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: BE-en



SAFETY DATA SHEET

ExoBrite[™] CTB EV Stains

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

ExoBrite[™] CTB EV Stains

Other names / Synonyms

30111A, 1 vial 30112A, 1 vial 30113A, 1 vial 30114A, 1 vial

Product no.

30111A, 30112A, 30113A, 30114A

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.

Use descriptors (REACH)

Sectors of use	Description
SU 24	Scientific research and development
Product category	Description
PC 21	Laboratory Chemicals
Process category	Description
PROC 15	Use as laboratory reagent

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 Revision

04/03/2024

SDS Version

1.0

Date of previous version

04/03/2024 (1.0)

1.4. Emergency telephone number Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) See also section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture



Not classified according to Regulation (EC) No. 1272/2008 (CLP).

```
2.2. Label elements
Hazard pictogram(s)
Not applicable.
Signal word
Not applicable.
Hazard statement(s)
Not applicable.
Precautionary statement(s)
General
-
Prevention
-
Response
-
Storage
-
Disposal
-
Hazardous substances
```

None known. Additional labelling Not applicable.

2.3. Other hazards

Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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

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

No specific requirements

▼ Storage temperature Freezer -10°C to -35°C. Protect from light.

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 in the Belgium list of substances with an occupational exposure limit.



DNEL

No data available.

PNEC

No data available.

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 gas or dust.

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 CE marked protective equipment.

Respiratory Equipment

Туре	Class	Colour	Standards
n/a	n/a	n/a	n/a

Skin protection

No specific requirements.

Hand protection

the second s				
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

Туре Standards Safety glasses with EN166 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).





```
9.1. Information on basic physical and chemical properties
   Physical state
      Solid
  Colour
      No data available
   Odour / Odour threshold
      No data available
   pН
   pH in solution
      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/Freezing point (°C)
      No data available
   Softening point/range (waxes and pastes) (°C)
      Does not apply to solids.
   Boiling point (°C)
      No data available
   Vapour pressure
      No data available
   Relative vapour density
      No data available
   Decomposition temperature (°C)
      No data available
Data on fire and explosion hazards
   Flash point (°C)
      No data available
   Flammability (°C)
      No data available
   Auto-ignition temperature (°C)
      No data available
   Lower and upper explosion limit (% 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 hazard classes as defined in Regulation (EC) No 1272/2008 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. Serious eye damage/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. Skin 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. Garcinogenicity Based on available data, the classification criteria are not met. StoT-single exposure Based on available data, the classification criteria are not met. StoT-single exposure Based on available data, the classification criteria are not met. StoT-single exposure Based on available data, the classification criteria are not met. StoT-single exposure Based on available data, the classification criteria are not met. StoT-single exposure Based on available data, the classification criteria are not met. StoT-single exposure 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, t
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

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. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects None known.

None known

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable.

Contaminated packing

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

SECTION 14: Transport information

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

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments No data available.

SECTION 15: Regulatory information

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

Restricted to professional users.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information



The full text of identified uses as mentioned in section 1 SU 24 = Scientific research and development PROC 15 = Use as laboratory reagent PC 21 = Laboratory Chemicals Abbreviations and acronyms 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 CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EuPCS = European Product Categorisation System EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container 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) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure 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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 quide. 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 blue 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: BE-en



SAFETY DATA SHEET

ExoBrite[™] Annexin EV Stains

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

ExoBrite[™] Annexin EV Stains

Other names / Synonyms

30119A-500uL, 500 uL 30119A-100uL, 100 uL 30120A-500uL, 500 uL 30120A-100uL, 100 uL 30121A-500uL, 500 uL 30121A-100uL, 100 uL 30122A-500uL, 500 uL 30122A-100uL, 100 uL

Product no.

30119A-500uL, 30119A-100uL, 30120A-500uL, 30120A-100uL, 30121A-500uL, 30121A-100uL, 30122A-500uL, 30122A-100uL

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.

Use descriptors (REACH)

USE DESCRIPTORS (REACH	1)
Sectors of use	Description
SU 24	Scientific research and development
Product category	Description
PC 21	Laboratory Chemicals
Process category	Description
PROC 15	Use as laboratory reagent
Uses advised against None known.	
1.3. Details of the supplier	of the safety data sheet
Company and address	
Biotium, Inc.	
46117 Landing Parky CA 94538 Fremont	way
USA	
T: +1 510-265-1027	
Fax: +1 510-265-1352	2
http://www.biotium.	.com
E-mail	
techsupport@biotiu	m.com
Revision	
04/03/2024	
SDS Version	
1.0	
Date of previous version 04/03/2024 (1.0)	n
1.4. Emergency telephone	number (0) 70 245 245 (overviday, 24 bours a day)

Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day)



See also section 4 "First aid measures".

SECTION 2: Hazards identification

```
2.1. Classification of the substance or mixture
  Not classified according to Regulation (EC) No. 1272/2008 (CLP).
2.2. Label elements
  Hazard pictogram(s)
     Not applicable.
  Signal word
     Not applicable.
  Hazard statement(s)
     Not applicable.
  Precautionary statement(s)
     General
      Prevention
      Response
     Storage
      Disposal
  Hazardous substances
     None known.
  Additional labelling
     Not applicable.
2.3. Other hazards
  Additional warnings
     This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
```

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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 temperature

Refrigerator 2°C to 8°C. Protect from light. Do not freeze.

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 cor	SECTION 8: Exposure controls/personal protection					
DNEL No data available. PNEC No data available. 8.2. Exposure controls Apply general control to General recommendat Smoking, drinking a Exposure scenarios There are no expos Exposure limits Occupational expos Appropriate technical to Apply standard pre- Hygiene measures Wash hands after u Measures to avoid env No specific requirer Individual protection mea Generally	and consumption of food ure scenarios implemente sure limits have not been measures cautions during use of the se. ironmental exposure ments. asures, such as personal p d protective equipment. t	xposure is not allowed in the wor ed for this product. defined for the substance e product. Avoid inhalatic	k area. es in this product. on of vapours.			
Туре	Class	Colour	Standards			
n/a	n/a	n/a	n/a			

Skin protection No specific requirements.

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. Use equipment for eye protection tested and approved under	EN166	



Standards

appropriate government standards such as NIOSH (US) or EN 166(EU).

Туре

SECTION 9: Physical and chemical properties

```
9.1. Information on basic physical and chemical properties
  Physical state
      Liquid
  Colour
      No data available
  Odour / Odour threshold
      No data available
  pН
  pH in solution
      7-8 (%)
  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/Freezing point (°C)
      No data available
  Softening point/range (waxes and pastes) (°C)
      Does not apply to liquids.
  Boiling point (°C)
      No data available
  Vapour pressure
      No data available
  Relative vapour density
      No data available
  Decomposition temperature (°C)
      No data available
Data on fire and explosion hazards
  Flash point (°C)
      No data available
  Flammability (°C)
      No data available
  Auto-ignition temperature (°C)
      No data available
  Lower and upper explosion limit (% 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 hazard classes as defined in Regulation (EC) No 1272/2008

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.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

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. Endocrine disrupting properties This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.
12.7. Other adverse effects None known.
SECTION 13: Disposal considerations
13.1. Waste treatment methods Product is not covered by regulations on dangerous waste. Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.
EWC code Not applicable.
Contaminated packing

Contaminated packing

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

SECTION 14: Transport information

	14.1 UN / 1	14.2 ID UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

- * Packing group
- ** Environmental hazards

Additional information

- Not dangerous goods according to ADR, IATA and IMDG.
- 14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments No data available.

SECTION 15: Regulatory information

 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture Restrictions for application Restricted to professional users.
 Demands for specific education No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.



Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1

SU 24 = Scientific research and development

PROC 15 = Use as laboratory reagent

PC 21 = Laboratory Chemicals

Abbreviations and acronyms

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

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EINECS = European Inventory of Existing Commercial chemical Substances

ES = Exposure Scenario

EUH statement = CLP-specific Hazard statement

EuPCS = European Product Categorisation System

EWC = European Waste Catalogue

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IARC = International Agency for Research on Cancer (IARC)

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

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)

OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic

PNEC = Predicted No Effect Concentration

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SCL = A specific concentration limit

SVHC = Substances of Very High Concern

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 blue 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: BE-en



SAFETY DATA SHEET

ExoBrite[™] WGA EV Stains

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

ExoBrite[™] WGA EV Stains

Other names / Synonyms

30123A-500, 1 vial 30123A-100, 1 vial 30124A-500, 1 vial 30124A-100, 1 vial 30125A-500, 1 vial 30125A-100, 1 vial 30126A-500, 1 vial 30126A-100, 1 vial

Product no.

30123A-500, 30123A-100, 30124A-500, 30124A-100, 30125A-500, 30125A-100, 30126A-500, 30126A-100 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.

Use descriptors (REACH)

Use descriptors (REACH)	
Sectors of use	Description
SU 24	Scientific research and development
Product category	Description
PC 21	Laboratory Chemicals
Process category	Description
PROC 15	Use as laboratory reagent
Uses advised against None known.	
1.3. Details of the supplier of	of the safety data sheet
Company and address	
Biotium, Inc.	
46117 Landing Parkw	lay
CA 94538 Fremont	
USA	
T: +1 510-265-1027 Fax: +1 510-265-1352	
http://www.biotium.c	
E-mail	
techsupport@biotium	a com
Revision	
04/03/2024	
SDS Version	
1.0	
Date of previous version	
04/03/2024 (1.0)	
1.4. Emergency telephone	number
	0) 70 245 245 (every day, 24 hours a day)



SECTION 2: Hazards identification

```
2.1. Classification of the substance or mixture
  Not classified according to Regulation (EC) No. 1272/2008 (CLP).
2.2. Label elements
  Hazard pictogram(s)
      Not applicable.
  Signal word
     Not applicable.
  Hazard statement(s)
     Not applicable.
  Precautionary statement(s)
      General
      Prevention
      Response
     Storage
      Disposal
  Hazardous substances
     None known.
  Additional labelling
     Not applicable.
2.3. Other hazards
  Additional warnings
```

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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

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 temperature Freezer -10°C to -35°C.

Protect from light.

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: Exposur	e controls/personal protect	ion	
DNEL No data available. PNEC No data available. 8.2. Exposure contro Apply general cor General recomme Smoking, drink Exposure scenario There are no e Exposure limits Occupational e Appropriate techr Apply standard Hygiene measure Wash hands at Measures to avoid No specific rec	ls trol to prevent unnecessar ndations sing and consumption of fo s xposure scenarios impleme exposure limits have not be sical measures l precautions during use of s ter use. l environmental exposure	y exposure od is not allowed in the wo ented for this product. en defined for the substand the product. Avoid inhalati	rk area. ces in this product.
Respiratory Equip		Colour	Standards
Type n/a	n/a	n/a	n/a
	II/d	II/d	11/a
Skin protection No specific rec Hand protection	uirements.		
Material	Glove thickness (mn	n) Breakthrough time (min.)	Standards

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	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

 Type
 Standards

 Safety glasses with side-shields conforming to EN166.
 EN166

Use equipment for eye protection tested and approved under

government standards



appropriate



Туре	Standards
such as NIOS	
EN 166(EU).	
SECTION 9: Physic	al and chemical properties
	basic physical and chemical properties
Physical state Solid	
Colour	
No data avai	
Odour / Odour No data avai	
pH	able
-	
pH in solution	
7.4 (%) Density (g/cm³)	
No data avai	able
Relative density	
No data avai Kinematic visco	
No data avai	
Particle charact	
No data avai	able
Phase changes Melting point/F	eezing point (°C)
No data avai	
	range (waxes and pastes) (°C)
Does not ap Boiling point (°C	
No data avai	
Vapour pressur	
No data avai Relative vapour	
No data avai	
	temperature (°C)
No data avai Data on fire and ex	
Flash point (°C)	
No data avai	
Flammability (°C No data avai	
Auto-ignition te	
No data avai	able
Lower and uppe No data avai	r explosion limit (% v/v)
Solubility	
Solubility in wat	
Soluble in wa	
n-octanol/water No data avai	coefficient (LogKow) able
Solubility in fat	
No data avai	able
9.2. Other informa	
No data avai	e (n-butylacetate = 100) able
	nd 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 hazard classes as defined in Regulation (EC) No 1272/2008

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.

11.2. Information on other hazards

Long term effects

None known.

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information None known.

SECTION 12: Ecological information

12.1. Toxicity

No data available.



12.2. Pe					
	rsistence and degradability d on available data, the classifica	ration critoria are not mot			
	oaccumulative potential	ation chiena are not met.			
Base	d on available data, the classific	ation criteria are not met.			
	obility in soil ata available.				
	esults of PBT and vPvB assessme	ent			
		ain any substances known to fulfil the criteri	ia for PBT and v	/PvB clas	sification.
	idocrine disrupting properties mixture/product does not conta	ain any substances considered to have endo	ocrine-disruptir	a prope	rties in relatio
to th	e environment.	,		51 1	
	her adverse effects e known.				
Norm					
SECTIC	N 13: Disposal considerations				
Prod Com EWC N Contarr	code ot applicable. inated packing	ns on dangerous waste. 7/2014 of 18 December 2014 on waste. e product must be disposed of similarly to tl	he product.		
SECTIC	N 14: Transport information				
	14.1 14.2 UN / ID UN proper shipping na	14.3 ame Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR		-	-	-	-
IMDG		-	-	-	-
ATA		-	-	-	-
* Packing	group				
	nmental hazards				
	nal information Jangerous goods according to A	ADR. IATA and IMDG.			
	ecial precautions for user				
Not a	applicable.				
		ing to IMO instruments			
	aritime transport in bulk accordi ata available.				
No d					
No d	ata available.	regulations/legislation specific for the subs	tance or mixtu	re	
No d SECTIC 15.1. Sa Restr	ata available. DN 15: Regulatory information fety, health and environmental rictions for application	regulations/legislation specific for the subs	tance or mixtu	re	
No d SECTIC 15.1. Sa Restr R	ata available. DN 15: Regulatory information fety, health and environmental rictions for application estricted to professional users.	regulations/legislation specific for the subs	tance or mixtu	re	
No d SECTIC 15.1. Sa Restr R Dem	ata available. DN 15: Regulatory information fety, health and environmental rictions for application	regulations/legislation specific for the subs	tance or mixtu	re	
No d SECTIC 15.1. Sa Restr R Dem N SEVE	ata available. ON 15: Regulatory information fety, health and environmental rictions for application estricted to professional users. ands for specific education o specific requirements. SO - Categories / dangerous sub		tance or mixtu	re	
No d SECTIC 15.1. Sa Restr R Dem N SEVE N Addi	ata available. ON 15: Regulatory information fety, health and environmental rictions for application estricted to professional users. ands for specific education o specific requirements. SO - Categories / dangerous sub ot applicable. tional information		tance or mixtu	re	
No d SECTIC 15.1. Sa Restr R Dem N SEVE N Addi N	ata available. DN 15: Regulatory information fety, health and environmental rictions for application estricted to professional users. ands for specific education o specific requirements. SO - Categories / dangerous sub ot applicable. tional information ot applicable.		tance or mixtu	re	
No d SECTIC 15.1. Sa Restri R Dem N SEVE N Addi N Sour	ata available. DN 15: Regulatory information fety, health and environmental rictions for application estricted to professional users. ands for specific education o specific requirements. SO - Categories / dangerous sub ot applicable. tional information ot applicable. ces		tance or mixtu	re	
No d SECTIC 15.1. Sa Restr	ata available. DN 15: Regulatory information fety, health and environmental rictions for application	regulations/legislation specific for the subs	tance or mixtu	re	



Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1 SU 24 = Scientific research and development PROC 15 = Use as laboratory reagent PC 21 = Laboratory Chemicals Abbreviations and acronyms 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 CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EuPCS = European Product Categorisation System EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container 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) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure 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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 quide. 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 blue



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: BE-en



SAFETY DATA SHEET

ExoBrite[™] Reconstitution Solution

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

ExoBrite[™] Reconstitution Solution

Other names / Synonyms

99858, 1 mL

Product no.

99858

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.

Use descriptors (REACH)

Sectors of use	Description
SU 24	Scientific research and development
Product category	Description
PC 21	Laboratory Chemicals
Process category	Description
PROC 15	Use as laboratory reagent

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 Revision 04/03/2024 SDS Version 1.0 Date of previous version 04/03/2024 (1.0) 1.4. Emergency telephone number Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) See also section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2. Label elements



Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day)

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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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 temperature

Refrigerator 2°C to 8°C or Freezer -10°C to -35°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 in the Belgium list of substances with an occupational exposure limit.

DNEL



PNEC

No data available.

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 CE marked protective equipment.

Respiratory Equipment

Туре	Class	Colour	Standards
n/a	n/a	n/a	n/a

Skin protection

No specific requirements.

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				

Eye protection

Туре	Standards	
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).	EN166	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state



Liquid Colour Clear Odour / Odour threshold No data available pН pH in solution 7.4 (%) 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/Freezing point (°C) No data available Softening point/range (waxes and pastes) (°C) Does not apply to liquids. Boiling point (°C) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperature (°C) No data available Data on fire and explosion hazards Flash point (°C) No data available Flammability (°C) No data available Auto-ignition temperature (°C) No data available Lower and upper explosion limit (% 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



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 hazard classes as defined in Regulation (EC) No 1272/2008 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. 11.2. Information on other hazards Long term effects None known. Endocrine disrupting properties This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health. Other information 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. Endocrine disrupting properties



This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable.

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:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

- 14.6. Special precautions for user
- Not applicable.

14.7. Maritime transport in bulk according to IMO instruments No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1 SU 24 = Scientific research and development



PROC 15 = Use as laboratory reagent PC 21 = Laboratory Chemicals Abbreviations and acronyms 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 CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EuPCS = European Product Categorisation System EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container 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) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure 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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 blue 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: BE-en



SAFETY DATA SHEET

50X Annexin Binding Buffer

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

50X Annexin Binding Buffer

Other names / Synonyms

99878, 1 mL

Product no.

99878

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.

Use descriptors (REACH)

Sectors of use	Description	
SU 24	Scientific research and development	
Product category	Description	
PC 21	Laboratory Chemicals	
Process category	Description	
PROC 15	Use as laboratory reagent	

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 Revision 04/03/2024 SDS Version 1.0 Date of previous version 04/03/2024 (1.0) 1.4. Emergency telephone number Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) See also section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2. Label elements



Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day)

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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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
 - 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 temperature

Refrigerator 2°C to 8°C or Freezer -10°C to -35°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 in the Belgium list of substances with an occupational exposure limit.

DNEL



PNEC

No data available.

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 CE marked protective equipment.

Respiratory Equipment

Туре	Class	Colour	Standards
n/a	n/a	n/a	n/a

Skin protection

No specific requirements.

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				

Eye protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state



Liquid Colour No data available Odour / Odour threshold No data available pН pH in solution 7.4 (%) 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/Freezing point (°C) No data available Softening point/range (waxes and pastes) (°C) Does not apply to liquids. Boiling point (°C) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperature (°C) No data available Data on fire and explosion hazards Flash point (°C) No data available Flammability (°C) No data available Auto-ignition temperature (°C) No data available Lower and upper explosion limit (% 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



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 hazard classes as defined in Regulation (EC) No 1272/2008 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. 11.2. Information on other hazards Long term effects None known. Endocrine disrupting properties This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health. Other information 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. Endocrine disrupting properties



This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable.

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:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

- 14.6. Special precautions for user
- Not applicable.

14.7. Maritime transport in bulk according to IMO instruments No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1 SU 24 = Scientific research and development



PROC 15 = Use as laboratory reagent PC 21 = Laboratory Chemicals Abbreviations and acronyms 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 CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EuPCS = European Product Categorisation System EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container 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) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure 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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 blue 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: BE-en



SAFETY DATA SHEET

ExoBrite[™] 1X PBS Solution

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

ExoBrite[™] 1X PBS Solution

Other names / Synonyms

99879, 1 mL

Product no.

99879

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.

Use descriptors (REACH)

Sectors of use	Description	
SU 24	Scientific research and development	
Product category	Description	
PC 21	Laboratory Chemicals	
Process category	Description	
PROC 15	Use as laboratory reagent	

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 Revision 04/03/2024 SDS Version 1.0 Date of previous version 04/03/2024 (1.0) 1.4. Emergency telephone number Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) See also section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP).

2.2. Label elements



Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

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

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

In the case of accident: Contact a doctor or casualty department – bring the label or this safety data sheet. The doctor can contact the Anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day)

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

If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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: Firefighting 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 anti-poison center: +32 (0) 70 245 245 (every day, 24 hours a day) 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 temperature

Refrigerator 2°C to 8°C or Freezer -10°C to -35°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 in the Belgium list of substances with an occupational exposure limit.

DNEL



PNEC

No data available.

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 CE marked protective equipment.

Respiratory Equipment

Туре	Class	Colour	Standards
n/a	n/a	n/a	n/a

Skin protection

No specific requirements.

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				

Eye protection

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties Physical state



Liquid Colour Clear Odour / Odour threshold No data available pН pH in solution 7-8 (%) 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/Freezing point (°C) No data available Softening point/range (waxes and pastes) (°C) Does not apply to liquids. Boiling point (°C) No data available Vapour pressure No data available Relative vapour density No data available Decomposition temperature (°C) No data available Data on fire and explosion hazards Flash point (°C) No data available Flammability (°C) No data available Auto-ignition temperature (°C) No data available Lower and upper explosion limit (% v/v) No data available Solubility Solubility in water Soluble in water 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



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 hazard classes as defined in Regulation (EC) No 1272/2008 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. 11.2. Information on other hazards Long term effects None known. Endocrine disrupting properties This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health. Other information 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. Endocrine disrupting properties



This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is not covered by regulations on dangerous waste.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

Not applicable.

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:
ADR	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

* Packing group

** Environmental hazards

Additional information

Not dangerous goods according to ADR, IATA and IMDG.

- 14.6. Special precautions for user
- Not applicable.

14.7. Maritime transport in bulk according to IMO instruments No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Not applicable.

Additional information

Not applicable.

Sources

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on

classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

The full text of identified uses as mentioned in section 1 SU 24 = Scientific research and development



PROC 15 = Use as laboratory reagent PC 21 = Laboratory Chemicals Abbreviations and acronyms 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 CE = Conformité Européenne (European conformity) CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] CSA = Chemical Safety Assessment CSR = Chemical Safety Report DMEL = Derived Minimal Effect Level DNEL = Derived No Effect Level EINECS = European Inventory of Existing Commercial chemical Substances ES = Exposure Scenario EUH statement = CLP-specific Hazard statement EuPCS = European Product Categorisation System EWC = European Waste Catalogue GHS = Globally Harmonized System of Classification and Labelling of Chemicals IARC = International Agency for Research on Cancer (IARC) IATA = International Air Transport Association IBC = Intermediate Bulk Container 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) OECD = Organisation for Economic Co-operation and Development PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail RRN = REACH Registration Number SCL = A specific concentration limit SVHC = Substances of Very High Concern STOT-RE = Specific Target Organ Toxicity - Repeated Exposure STOT-SE = Specific Target Organ Toxicity - Single Exposure 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 Article 31 of REACH, 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 as required under Article 32 of REACH. 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 blue 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: BE-en