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

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

## SAFETY DATA SHEET

Date: March 26, 2021

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Catalog Number: Unit Size: Manufacturer/Supplier:	Modified HRP 92300A, 92301A, 92302A 1 vial Biotium, Inc. 46117 Landing Parkway, Fremont, CA 94538, USA Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Phone: 1-510-265-1027, Fax: 1-510-265-1352 Web: <u>http://www.biotium.com</u>

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

## 2. HAZARDS IDENTIFICATION

GHS ClassificationSignal wordNoneHealth hazardsNonePhysical hazardsNoneHazard statementsNonePrecautionary statementsWHMIS classificationNoneGHS hazard pictogram	None None	
HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0		
Classification according to Reguesting to Reguesting to Direct Classification according to Direct Direct Classification according to Direct Classification a		None
Labeling according to Regulatio Hazard pictogram None Signal word None Hazard statements None Precautionary statements	n (EC) No 1272/2008[CLP] None	
COMPOSITION/INFORMATION ON	N INGREDIENTS	

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

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

3.



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Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store at -20°C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters None

#### Personal protective equipment

#### Hand protection

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

#### **Respiratory protection**

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

#### Eye protection

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

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Modified HRP
Solid
No data available

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

#### 10. STABILITY AND REACTIVITY

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

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Specific target organ toxicity - single exposure (Globally Harmonized System) No data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed.



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Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Additional Information RTECS: None

#### 12. ECOLOGICAL INFORMATION

ToxicityNo information availablePersistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableResults of PBT and vPvB assessmentNo information availableOther adverse effectsNo information availableAdditional informationNo information available

#### 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name None
 Transport hazard class

 Transport hazard class
 None

 Packing group
 None

 Environmental hazards
 None

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

 Special precaution for user
 None

#### 15. REGULATION INFORMATION

#### **US Federal Regulations**

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

WHMIS Hazard Class None

#### 16. OTHER INFORMATION

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

Prepared by:	Regulat Biotium	ory Department Inc.
Version no.	4	
Revision date (Init	ials)	5/26/21 (JS)
Reason for revisio	n	update section 12



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## SAFETY DATA SHEET

Date: March 26, 2021

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	HRP Reaction Buffer, 10X
Catalog Number:	99994
Unit Size:	25 uL
Manufacturer/Supplier:	Biotium, Inc.
	46117 Landing Parkway, Fremont, CA 94538, USA
	Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Web: http://www.biotium.com

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

## 2. HAZARDS IDENTIFICATION

GHS ClassificationSignal wordNoneHealth hazardsNonePhysical hazardsNoneHazard statementsNonePrecautionary statementsWHMIS classificationWHMIS classificationNoneGHS hazard pictogram	None
HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0	
Classification according to Reg Classification according to Dire	ulation (EC) No 1272/2008[CLP] None active 1999/45/EC None
Labeling according to Regulation Hazard pictogram None Signal word None Hazard statements None Precautionary statements	on (EC) No 1272/2008[CLP] None
COMPOSITION/INFORMATION O	IN INGREDIENTS entrations classified as hazardous to health or the environment.

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

3.



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Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Avoid breathing vapors, mist or gas. Remove all sources of ignition. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Methods and materials for containment and cleaning up** Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store at -20°C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters None

#### Personal protective equipment

#### Hand protection

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

### **Respiratory protection**

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

#### Eye protection

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

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	HRP Reaction Buffer (10X)
Appearance	Liquid
Odor	No data available
Odor threshold	No data available
рН	8.5-9.5
Melting point/freezing point	No data available



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

10. STABILITY AND REACTIVITY

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

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Specific target organ toxicity - single exposure (Globally Harmonized System) No data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation.



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Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Additional Information RTECS: None

#### 12. ECOLOGICAL INFORMATION

ToxicityNo information availablePersistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableResults of PBT and vPvB assessmentNo information availableOther adverse effectsNo information availableAdditional informationNo information available

13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name
 None

 Transport hazard class
 None

 Packing group
 None

 Environmental hazards
 None

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

 Special precaution for user
 None

#### 15. REGULATION INFORMATION

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

WHMIS Hazard Class None

#### 16. OTHER INFORMATION

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

Prepared by:Regulatory Department<br/>Biotium Inc.Version no.4Revision date (Initials)5/26/21 (JS)Reason for revisionUpdate section 12



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## SAFETY DATA SHEET

Date: April 21, 2020

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:HRP Reaction EnhancerCatalog Number:99995Unit Size:1 vialManufacturer/Supplier:Biotium, Inc.46117 Landing Parkway, Fremont, CA 94538, USA<br/>Phone: 1-510-265-1027, Fax: 1-510-265-1352<br/>Web: http://www.biotium.com

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

#### 2. HAZARDS IDENTIFICATION

## GHS Classification

## Signal word

Health hazards

Acute toxicity, Oral (Category 2) Acute toxicity, Inhalation (Category 2) Acute toxicity, Dermal (Category 2) Skin corrosion (Category 1B) Serious eye damage (Category 1) Short-term (acute) aquatic hazard (Category 1) Long-term (chronic) aquatic hazard (Category 1)

Danger

#### Physical hazards

Flammable solids (Category 1), H228 Chemicals which, in contact with water, emit flammable gases (Category 1), H260 Contact with acids liberates very toxic gas. Stench.

#### Hazard statements

H228 Flammable solid.
H260 In contact with water releases flammable gases which may ignite spontaneously.
H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.
H314 Causes severe skin burns and eye damage.
H410 Very toxic to aquatic life with long lasting effects.

#### **Precautionary statements**

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P223 Do not allow contact with water.
P231 + P232 Handle under inert gas. Protect from moisture.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting equipment.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P262 Do not get in eyes, on skin, or on clothing.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
P284 Wear respiratory protection.
P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth.
P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.



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P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.

P305 + P351 + P338 +P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages.

P362 Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish. P391 Collect spillage.

P402 + P404 Store in a dry place. Store in a closed container.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### WHMIS classification None

#### GHS hazard pictogram



#### **HMIS Classification**

Health hazard: 0 Flammability: 0 Physical hazards: 0 **NFPA Rating** Health hazard: 0 Fire: 0 Reactivity Hazard: 0

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

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



Signal wordDangerHazard statementsDangerH228 Flammable solid.H260 In contact with water releases flammable gases which may ignite spontaneously.H300 + H310 + H330 Fatal if swallowed, in contact with skin or if inhaled.H314 Causes severe skin burns and eye damage.H410 Very toxic to aquatic life with long lasting effects.

#### Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking. P223 Do not allow contact with water. P231 + P232 Handle under inert gas. Protect from moisture.



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P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ ventilating/ lighting equipment. P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. P262 Do not get in eyes, on skin, or on clothing. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P284 Wear respiratory protection. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P350 + P310 IF ON SKIN: Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/ physician. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. P305 + P351 + P338 +P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. P335 + P334 Brush off loose particles from skin. Immerse in cool water/ wrap in wet bandages. P362 Take off contaminated clothing and wash before reuse.

P302 Take on contaminated clothing and wash before reuse. P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

P391 Collect spillage.

P402 + P404 Store in a dry place. Store in a closed container.

P403 + P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Name	CAS No.	EC No.	Index No.	Weight %	Classification according to 67/548/EEC	Classification according to regulation (EC)No1278/2008
Sodium cyanotrihydrido -borate	25895-60-7	247-317-2	247- 317-2	>99%	Flam. Sol. 1 Acute Tox. 2 Acute Tox. 2 Skin Corr. 1B Acute Tox. 2 Aquatic Acute 1 Aquatic Chronic 1	

#### 4. FIRST- AID MEASURES

General advice

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

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



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5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. **Methods and materials for containment and cleaning up** Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

Precautions for safe handling Avoid inhalation of vapor or mist. Avoid direct contact with substance. Conditions for safe storage Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Substance: Sodium cyanotrihydridoborate

CAS no. 25895-60-7

Country	Austria	Belgium	Denmark	European Union	France	Germany
Limit value,8hours						
Limit value, short term						

Country	Hungary	Italy	Poland	Spain	Sweden	Netherlands	Switzerland
Limit value,8hours							
Limit value, short term							

Country	United Kingdom	USA- NIOSH	USA- OSHA	Australia	Canada	Japan	South Korea
Limit value,8hours							
Limit value, short term		4.7 ppm 5 mg/m3					

#### Personal protective equipment Hand protection

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

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



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#### Eye protection

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

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	HRP Reaction
	Enhancer
Appearance	Solid
Odor	No data available
Odor threshold	No data available
рН	No data available
Melting point/freezing point	No data available
Boiling point	No data available
Flash point	No data available
Evaporate rate	No data available
Flammability	No data available
Explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Partition coefficient:n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

#### 10. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions Contact with acids liberates very toxic gas. Reacts violently with water. Conditions to avoid Heat, flames and sparks. Materials to avoid Do not store near acids., Oxidizing agents Hazardous decomposition products Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx), Hydrogen cyanide (hydrocyanic acid), Borane/boron oxides Reacts with water to form: - Hydrogen gas

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides,

Borane/boron oxides, Sodium oxides

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity Skin corrosion/irritation No data available

No data available



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46117 Landing Parkway, Fremont, CA 94538 U.S.A. Tel: 1-510-265-1027; Fax: 1-510-265-1352 Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. **Reproductive toxicity** No data available

Specific target organ toxicity - single exposure (Globally Harmonized System) No data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Additional Information RTECS: None

#### 12. ECOLOGICAL INFORMATION

ToxicityVery toxic to aquatic life with long lasting effects.Persistence and degradabilityNo information availableBioaccumulitive potentialNo information availableMobility in soilNo information availableResults of PBT and vPvB assessmentNo information availableOther adverse effectsNo information availableAdditional informationNo information available

#### 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

IATA, IMDG, DOT (US), TDG Not classified as dangerous goods during transportation (excepted quantity) **UN number** 3179 UN proper shipping name Flammable solid, toxic, inorganic, n.o.s. (Sodium cyanoborohydride) Transport hazard class 4.1 (6.1) Packing group Ш Environmental hazards None Transport in bulk according to Annex II of MARPOL 73/78 and IBC Code None Special precaution for user None

#### 15. REGULATION INFORMATION

## **US Federal Regulations**

US Toxic Substances Control Act (TSCA): Not listed



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SARA 302: No chemicals were found. SARA 313: No chemicals were found. SARA 311/312 Fire Hazard, Acute Health Hazard, Chronic Health Hazard WHMIS Hazard Class None

## 16. OTHER INFORMATION

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

Prepared by: Regulatory Department Biotium Inc. Version no. 4 Revision date (Initials) 5/26/21 (JS) Reason for revision update section 12.

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

## SAFETY DATA SHEET

Date: April 21, 2020

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Product Name:	HRP Conjugate Storage Buffer
Catalog Number:	99996-70uL, 99996-150uL, 99996-300uL
Unit Size:	70 uL, 150 uL, or 300 uL
Manufacturer/Supplier:	Biotium, Inc.
	46117 Landing Parkway, Fremont, CA 94538, USA
	Phone: 1-510-265-1027, Fax: 1-510-265-1352
	Web: http://www.biotium.com

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

## 2. HAZARDS IDENTIFICATION

GHS ClassificationSignal wordNoneHealth hazardsNonePhysical hazardsNoneHazard statementsNonePrecautionary statementsWHMIS classificationNoneGHS hazard pictogram	None None	
HMIS Classification Health hazard: 0 Flammability: 0 Physical hazards: 0 NFPA Rating Health hazard: 0 Fire: 0 Reactivity Hazard: 0		
Classification according to Regulation (EC) No 1272/2008[CLP] None Classification according to Directive 1999/45/EC None		
Labeling according to Regulation Hazard pictogram None Signal word None Hazard statements None Precautionary statements	n <b>(EC) No 1272/2008[CLP]</b> None	
COMPOSITION/INFORMATION ON	INGREDIENTS	

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

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

3.

4.



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Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### 5. FIREFIGHTING MEASURES

#### Suitable extinguishing media

Carbon dioxide, dry chemical extinguishers, foam extinguishers or water. **Special protective equipment for firefighters** Wear self contained breathing apparatus for firefighting if necessary.

#### 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Avoid breathing vapors, mist or gas. Remove all sources of ignition. Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Methods and materials for containment and cleaning up Contain spillage. Soak up spilled substance with inert absorbent material. Keep in suitable, closed containers for disposal.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid inhalation of vapor or mist. Avoid direct contact with substance. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Store at -20 °C.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

None

#### Personal protective equipment

#### Hand protection

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

## Respiratory protection

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

#### Eye protection

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

#### Hygiene measures

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

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Chemical Name	HRP Conjugate
	Storage Buffer
Appearance	Liquid
Odor	No data available
Odor threshold	No data available
рН	No data available
Melting point/freezing point	No data available
Boiling point	No data available

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

#### 10. STABILITY AND REACTIVITY

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

#### 11. TOXICOLOGICAL INFORMATION

Acute toxicity Oral LD50 None Inhalation LC50 None Dermal LD50 None Other information on acute toxicity No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA. Reproductive toxicity No data available Specific target organ toxicity - single exposure (Globally Harmonized System) No data available Specific target organ toxicity - repeated exposure (Globally Harmonized System) No data available Aspiration hazard No data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed.



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Skin May be harmful if absorbed through skin. May cause skin irritation. Eyes May cause eye irritation. Additional Information RTECS: None

#### 12. ECOLOGICAL INFORMATION

ToxicityNo information availablePersistence and degradabilityNo information availableBioaccumulative potentialNo information availableMobility in soilNo information availableResults of PBT and vPvB assessmentNo information availableOther adverse effectsNo information availableAdditional informationNo information available

#### 13. DISPOSAL CONSIDERATIONS

Do not dispose product directly into sewage. Consult local state or national regulation for proper disposal.

#### 14. TRANSPORT INFORMATION

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

 UN number
 None

 UN proper shipping name None
 Transport hazard class

 Packing group
 None

 Environmental hazards
 None

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

 Special precaution for user
 None

#### 15. REGULATION INFORMATION

#### **US Federal Regulations**

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

WHMIS Hazard Class None

#### 16. OTHER INFORMATION

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

Prepared by:	Regula Biotium	tory Department n Inc.
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Reason for revision	on .	Application of WHMIS labeling requirements