

Document: BH5401-A  
Release date: Oct 18, 2024

Applies to part numbers:  
BH5401

## **Section 1 Product and company identification**

Product code: BH5401 Product name: Reagent A

Supplier: YamayBio LLC

Address: 12100 Wilshire boulevard suite 800, Los Angeles, CA, USA

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

## **Section 2 Hazards identification**

### EMERGENCY OVERVIEW:

Harmful if swallowed. May cause irritation. Avoid breathing vapors or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

#### HMIS RATING

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

## **Section 3 Composition/Information on Ingredients**

The product is a mix containing no substances which, at their given concentration, are considered to be hazardous to health.

## **Section 4 First Aid Measures**

ORAL EXPOSURE	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. If swallowed, wash out mouth with water provided person is conscious. Call a physician.
INHALATION EXPOSURE	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. if necessary, call a physician.
DERMAL EXPOSURE	In case of contact, rinse with plenty of water.
EYE EXPOSURE	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## **Section 5 Fire Fighting Measures**

FLASH POINT N/A

AUTOIGNITION TEMP N/A

FLAMMABILITY N/A

#### EXTINGUISHING MEDIA

Suitable Water spray, carbon dioxide, dry chemical powder, or appropriate foam.

Not suitable No information available

**Section 6 Accidental Release Measures****PERSONAL PRECAUTIONS,  
PROTECTIVE EQUIPMENT AND  
EMERGENCY PROCEDURES**

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

**ENVIRONMENTAL PRECAUTIONS**

No special environmental precautions required.

**METHODS AND MATERIAL FOR  
CONTAINMENT**

Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

**Section 7 Handling and Storage****SAFE HANDLING**

Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.

**SAFE STORAGE**

Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

**Section 8 Exposure Controls / Personal Protection****PERSONAL PROTECTIVE EQUIPMENT****Respiratory**

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

**Hand**

Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.

**Eye**

Tight sealing safety goggles.

**Skin and Body**

Wear suitable protective clothing.

**GENERAL HYGIENE MEASURES**

Wash thoroughly after handling.

**ENVIRONMENTAL EXPOSURE  
CONTROLS**

No special environmental precautions required.

**Section 9 Physical and chemical properties****Appearance Physical State**

Liquid, pH 11.15 to 11.35

**Solvent Content**

N/A

**Section 10 Stability and Reactivity****STABILITY**

Stable under recommended storage conditions.

**HAZARDOUS DECOMPOSITION PRODUCT****Hazardous Decomposition Products**

No data available.

**HAZARDOUS POLYMERIZATION****Hazardous Polymerization**

No data available.

**Section 11 Toxicological Information****INFORMATION ON TOXICOLOGICAL EFFECTS**

There is no evidence available indicating acute toxicity

**Section 12 Ecological Information**

Toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
General notes	No further relevant information available.
Results of PBT and vPvB assessment	No further relevant information available.

## **Section 13 Disposal Considerations**

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Observe all federal, state, and local environmental regulations.

## **Section 14 Transport Information**

IATA / ADR / DOT-US / IMDG	Not regulated in the meaning of transport regulations.
Environmental hazards	N/A
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A

## **Section 15 Regulatory Information**

US FEDERAL REGULATIONS

SARA 313	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)	This product does not contains HAPs.

US STATE REGULATIONS

California Proposition 65	This product does not contain any Proposition 65 chemicals.
WHMIS Hazard Class	Non-controlled

## **Section 16 Other information**

Date of last revision: Oct 18,2024

The information provided herein has been obtained through diligent research and analysis. The recommendations are based upon the prudent application of professional judgment. This information is not intended to be exhaustive and should be used as a general guideline. All materials and mixtures may present potential hazards, and should be handled with care. As the Company cannot control the specific methods, quantities, or conditions of use, it shall not be liable for any damages or losses resulting from the handling or contact with the product as described herein.

THE INFORMATION CONTAINED IN THIS SAFETY DATA SHEET DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

**End of Safety Data Sheet**

Document: BH5402-A  
Release date: Oct 18, 2024

Applies to part numbers:  
BH5402

## Section 1 Product and company identification

Product code: BH5402 Product name: Reagent B

Supplier: YamayBio LLC

Address: 12100 Wilshire boulevard suite 800, Los Angeles, CA, USA

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

## Section 2 Hazards identification

### GHS CLASSIFICATION

Signal Word

WARNING

Hazard pictograms



Hazard Statements

H400 - Very toxic to aquatic life

H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

P273 - Avoid release to the environment

Response

P391 - Collect spillage

Disposal

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

### EMERGENCY OVERVIEW:

Harmful if swallowed. May cause irritation. Avoid breathing vapors or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

### HMIS RATING

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

## Section 3 Composition/Information on Ingredients

Ingredient	CAS-No.	EINECS-No.	Weight %
Blue copper AS	7758-99-8	231-847-6	3-5

The product contains no other substances which, at their given concentration, are considered hazardous to health.

## Section 4 First Aid Measures

### ORAL EXPOSURE

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. If swallowed, wash out mouth with water provided person is conscious. Do NOT induce vomiting. Call a physician.

### INHALATION EXPOSURE

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. If necessary, call a physician.

DERMAL EXPOSURE	In case of contact, rinse with plenty of water. Remove contaminated clothing and shoes.
EYE EXPOSURE	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes.
MOST IMPORTANT SYMPTOMS AND EFFECTS,BOTH ACUTE AND DELAYED	
H400 - Very toxic to aquatic life; H411 - Toxic to aquatic life with long lasting effects.	

## **Section 5 Fire Fighting Measures**

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	
Suitable	Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
Not suitable	No information available
FIREFIGHTING	Not known

## **Section 6 Accidental Release Measures**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.
ENVIRONMENTAL PRECAUTIONS	Avoid discharge into drains and waterways whenever possible.
METHODS AND MATERIAL FOR CONTAINMENT	Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

## **Section 7 Handling and Storage**

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.
SAFE STORAGE	Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

## **Section 8 Exposure Controls / Personal Protection**

PERSONAL PROTECTIVE EQUIPMENT	
Respiratory	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye	Tight sealing safety goggles.
Skin and Body	Wear suitable protective clothing.
GENERAL HYGIENE MEASURES	Wash thoroughly after handling.
ENVIRONMENTAL EXPOSURE CONTROLS	Avoid discharge into drains and waterways whenever possible.

## **Section 9 Physical and chemical properties**

Appearance Physical State	Liquid
Solvent Content	N/A

## Section 10 Stability and Reactivity

STABILITY	Stable under recommended storage conditions.
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HAZARDOUS DECOMPOSITION PRODUCT

Hazardous Decomposition Products No data available.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization	No data available.
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## **Section 11 Toxicological Information**

## INFORMATION ON TOXICOLOGICAL EFFECTS

To the best of our knowledge, the chemical, physical, biological, and toxicological properties of this product have not been thoroughly investigated.

Ingredient	LD50 (oral,rat/mouse)	LD50 (oral,rat/mouse)	LC50 (inhalation,rat/mouse)
Blue copper AS	= 960 mg/kg (Rat) = 300mg/kg(Rat)	No data available	No data available

## **Section 12 Ecological Information**

## Toxicity

The environmental impact of this product has not been fully investigated.

Persistence and degradability	No further relevant information available.
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Bioaccumulative potential	No further relevant information available.
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General notes	No further relevant information available.
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Results of PBT and vPvB assessment	No further relevant information available.
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## **Section 13 Disposal Considerations**

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

## **Section 14      Transport Information**

IATA / ADR / DOT-US / IMDG

Classified as dangerous in the meaning of transport regulations

UN Number UN3082

UN proper shipping name	EnvironmentallyHazardous Substance, Liquid, n.o.s. (Copper(II) sulfate.pentahydrate (1:1:5))
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Transport hazard class(es)	9
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## ENVIRONMENTAL HAZARDS

Yes

## SPECIAL PRECAUTIONS FOR USER

N/A

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE  
N/A

**Section 15      Regulatory Information**

US FEDERAL REGULATIONS

SARA 313

This product contains the following toxic chemical(s) subject to the notification requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. This law requires certain manufacturers to report on annual emissions of specified chemicals and chemical categories. Please note that if you repackage, or otherwise redistribute, this product to industrial customers, a notice similar to this one should be sent to those customers.

Ingredient	CAS No.	Weight %	SARA 313 - Threshold Values
Blue copper AS	7758-99-8	3-5	1

Clean Air Act, Section 112  
Hazardous Air Pollutants (HAPs)  
(see 40 CFR 61)

This product does not contains HAPs.

US STATE REGULATIONS

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

**Section 16      Other information**

Date of last revision:                      Oct 18,2024

The information provided herein has been obtained through diligent research and analysis. The recommendations are based upon the prudent application of professional judgment. This information is not intended to be exhaustive and should be used as a general guideline. All materials and mixtures may present potential hazards, and should be handled with care. As the Company cannot control the specific methods, quantities, or conditions of use, it shall not be liable for any damages or losses resulting from the handling or contact with the product as described herein.

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**End of Safety Data Sheet**



# SAFETY DATA SHEET

Document: BH5404-A  
Release date: Oct 18, 2024

Applies to part numbers:  
BH5411, BH5412, BH5413, BH5414, BH5415, BH5416,  
BH5417, BH5418, BH5419, BH5420, BH5421, BH5422,  
BH5423

## **Section 1**      **Product and company identification**

Product code: BH5404      Product name: Protein Standards, 1mL x 8

Supplier: YamayBio LLC

Address: 12100 Wilshire boulevard suite 800, Los Angeles, CA, USA

Recommended Use: For research use only.

Restrictions on Use: Not for clinical use. Not for internal use in animals or humans. Not for diagnostic use. Not for household or any other unintended use.

## **Section 2**      **Hazards identification**

### EMERGENCY OVERVIEW:

Harmful if swallowed. May cause irritation. Avoid breathing vapors, or dusts. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

#### HMIS RATING

HEALTH	0
FLAMMABILITY	0
REACTIVITY	0

For additional information on toxicity, please refer to Section 11.

## **Section 3**      **Composition/Information on Ingredients**

The product is a mix containing no substances which, at their given concentration, are considered to be hazardous to health.

## **Section 4**      **First Aid Measures**

ORAL EXPOSURE	Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice. If swallowed, wash out mouth with water provided person is conscious. Call a physician.
INHALATION EXPOSURE	Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. If necessary, call a physician.
DERMAL EXPOSURE	In case of contact, rinse with plenty of water.
EYE EXPOSURE	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## **Section 5**      **Fire Fighting Measures**

FLASH POINT	N/A
AUTOIGNITION TEMP	N/A
FLAMMABILITY	N/A
EXTINGUISHING MEDIA	

Suitable	Water spray, carbon dioxide, dry chemical powder, or appropriate foam.
Not suitable	No information available
FIREFIGHTING	Not known

## **Section 6      Accidental Release Measures**

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.
ENVIRONMENTAL PRECAUTIONS	No special environmental precautions required.
METHODS AND MATERIAL FOR CONTAINMENT	Absorb solutions with finely-powdered liquid-binding material (diatomite, universal binders); Decontaminate surfaces and equipment by scrubbing with alcohol; Dispose of contaminated material according to Section 13.

## **Section 7      Handling and Storage**

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Avoid dust and aerosol formation. Use only in areas with appropriate exhaust ventilation.
SAFE STORAGE	Keep container tightly sealed in cool, well-ventilated area. Keep away from direct sunlight and sources of ignition.

## **Section 8      Exposure Controls / Personal Protection**

PERSONAL PROTECTIVE EQUIPMENT	
Respiratory	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.
Hand	Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye	Tight sealing safety goggles.
Skin and Body	Wear suitable protective clothing.
GENERAL HYGIENE MEASURES	Wash thoroughly after handling.
ENVIRONMENTAL EXPOSURE CONTROLS	No special environmental precautions required.

## **Section 9      Physical and chemical properties**

Appearance Physical State	Liquid
Solvent Content	N/A

## **Section 10      Stability and Reactivity**

STABILITY	Stable under recommended storage conditions.
HAZARDOUS DECOMPOSITION PRODUCT	
Hazardous Decomposition Products	No data available.
HAZARDOUS POLYMERIZATION	
Hazardous Polymerization	No data available.

## **Section 11      Toxicological Information**

INFORMATION ON TOXICOLOGICAL EFFECTS

There is no evidence available indicating acute toxicity

## **Section 12      Ecological Information**

Toxicity	No further relevant information available.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
General notes	No further relevant information available.
Results of PBT and vPvB assessment	No further relevant information available.

## **Section 13      Disposal Considerations**

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION:

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. Observe all federal, state, and local environmental regulations.

## **Section 14      Transport Information**

IATA / ADR / DOT-US / IMDG	Not regulated in the meaning of transport regulations.
Environmental hazards	N/A
Special precautions for user	N/A
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	N/A

## **Section 15      Regulatory Information**

US FEDERAL REGULATIONS

SARA 313	This product is not regulated by SARA.
Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)	This product does not contains HAPs.

US STATE REGULATIONS

California Proposition 65	This product does not contain any Proposition 65 chemicals.
WHMIS Hazard Class	Non-controlled

## **Section 16      Other information**

Date of last revision: Oct 18,2024

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**End of Safety Data Sheet**