

Document: RF1501-A  
Release date: Sep 18, 2024

Applies to part numbers:  
RF1513,RF1515

## **Section 1**      **Product and Company Identification**

Product code: RF1513      Product name: GL-Stacking Buffer A

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, 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      Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur

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      Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.

EYE EXPOSURE      Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

MOST IMPORTANT SYMPTOMS AND EFFECTS,BOTH ACUTE AND DELAYED

Prolonged contact may cause redness and irritation.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

## **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	Soak up with inert absorbent material.

## **Section 7      Handling and Storage**

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Always wear recommended Personal Protective Equipment.
SAFE STORAGE	Keep container tightly sealed in cool, well-ventilated area. Store in accordance with local regulations.

## **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.
HAZARDOUS DECOMPOSITION PRODUCT	
Hazardous Decomposition Products	No data available.
HAZARDOUS POLYMERIZATION	
Hazardous Polymerization	No data available.

## **Section 11      Toxicological Information**

ROUTE OF EXPOSURE	
Skin Contact	May cause skin irritation.

Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

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

### **Section 12 Ecological Information**

Toxicity	The environmental impact of this product has not been fully investigated.
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. This material and its container must be disposed of in according to 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

Not regulated

ENVIRONMENTAL HAZARDS

Not Applicable

SPECIAL PRECAUTIONS FOR USER

Not Applicable

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

Not Applicable

### **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:	Sep 18,2024
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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: RF1514-A  
Release date: Sep 18, 2024

Applies to part numbers:  
RF1514, RF1516

## Section 1 Product and Company Identification

Product code: RF1514 Product name: GL-Stacking Buffer B

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, 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.

### GHS CLASSIFICATION

Signal Word

DANGER

Hazard pictograms



Hazard Statements

H301 - Toxic if swallowed  
H411 - Toxic to aquatic life with long lasting effects  
H312 + H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H372 - Causes damage to organs through prolonged or repeated exposure  
H350 - May cause cancer  
H340 - May cause genetic defects  
H361 - Suspected of damaging fertility or the unborn child

### Precautionary Statements

Prevention

P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P201 - Obtain special instructions before use  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

Disposal

P502 - Refer to manufacturer/supplier for information on recovery/recycling

**HMIS RATING**

HEALTH	<b>2* Chronic Hazard</b>
FLAMMABILITY	<b>0</b>
REACTIVITY	<b>0</b>

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

**Section 3 Composition/ Information on Ingredients**

Ingredient	CAS-No.	EINECS-No.	Weight %
Acrylamide	79-06-1	201-173-7	9-15
Bis-Acrylamide	110-26-9	203-750-9	0.3-0.5

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. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	

H301 - Toxic if swallowed H312 + H332 - Harmful in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction H372 - Causes damage to organs through prolonged or repeated exposure H350 - May cause cancer H340 - May cause genetic defects H361 - Suspected of damaging fertility or the unborn child

**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	Soak up with inert absorbent material.

**Section 7 Handling and Storage**

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Always wear recommended Personal Protective Equipment.
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**SAFE STORAGE**

Keep container tightly sealed in cool, well-ventilated area. Store in accordance with local regulations.

**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.

**HAZARDOUS DECOMPOSITION PRODUCT**

Hazardous Decomposition Products No data available.

**HAZARDOUS POLYMERIZATION**

Hazardous Polymerization No data available.

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

<b>Ingredient</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Acrylamide	= 177 mg/kg	= 1148 mg/kg	No data available
Bis-Acrylamide	= 390 mg/kg (Rat)	No data available	No data available

**PRINCIPAL ROUTES OF EXPOSURE**

Skin corrosion/irritation	Skin irritation Serious eye damage/eye irritation
Respiratory or skin sensitization	May cause sensitization by skin contact
Specific target organ toxicity (STOT)–repeated exposure	Target organ(s): Blood
Carcinogenicity	Contains a known or suspected carcinogen
Germ cell mutagenicity	Product is or contains a chemical which may cause mutations in the germ cells of humans.
Reproductive toxicity	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility

**Section 12 Ecological Information****TOXICITY**

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

Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Acrylamide	No data available	Daphnia magna EC50=98 mg/L (48 h)	No data available	No data available	logPow-0.9
Bis-Acrylamide	No data available	No data available	No data available	No data available	logPow-0.08

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. 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

Not regulated

ENVIRONMENTAL HAZARDS

Not Applicable

SPECIAL PRECAUTIONS FOR USER

Not Applicable

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

Not Applicable

### **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 #	Weight %	SARA 313 - Threshold Values%
Acrylamide	7758-99-8	9-30	0.1

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

This product contains the following HAPs

Ingredient	CAS #	Weight %	HAPS data
Acrylamide	7758-99-8	9-30	Present

US STATE REGULATIONS

California Proposition 65

This product contains the following Proposition 65 chemicals:



Ingredient	CAS #	Weight %	Category
Acrylamide	7758-99-8	9-30	Carcinogen Developmental Male Reproductive

WHMIS Hazard Class

D1B - Toxic materials

## **Section 16 Other Information**

Date of last revision: Sep 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**

Document: RF1515-A  
Release date: Sep 18, 2024

Applies to part numbers:  
RF1513,RF1515

## **Section 1 Product and Company Identification**

Product code: RF1515 Product name: GL-Resolving Buffer A

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, 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 Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Get medical attention if symptoms occur

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 Wash off immediately with plenty of water for at least 15 minutes. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Immediate medical attention is required.

EYE EXPOSURE Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.

MOST IMPORTANT SYMPTOMS AND EFFECTS,BOTH ACUTE AND DELAYED

Prolonged contact may cause redness and irritation.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

Treat symptomatically.

## **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	Soak up with inert absorbent material.

## **Section 7      Handling and Storage**

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Always wear recommended Personal Protective Equipment.
SAFE STORAGE	Keep container tightly sealed in cool, well-ventilated area. K. Store in accordance with local regulations.

## **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.
HAZARDOUS DECOMPOSITION PRODUCT	
Hazardous Decomposition Products	No data available.
HAZARDOUS POLYMERIZATION	
Hazardous Polymerization	No data available.

## **Section 11      Toxicological Information**

ROUTE OF EXPOSURE	
Skin Contact	May cause skin irritation.

Skin Absorption	May be harmful if absorbed through the skin.
Eye Contact	May cause eye irritation.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

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

### **Section 12 Ecological Information**

Toxicity	The environmental impact of this product has not been fully investigated.
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. This material and its container must be disposed of in according to 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

Not regulated

ENVIRONMENTAL HAZARDS

Not Applicable

SPECIAL PRECAUTIONS FOR USER

Not Applicable

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

Not Applicable

### **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:	Sep 18,2024
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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**

Document: RF1516-A  
Release date: Sep 18, 2024

Applies to part numbers:  
RF1514, RF1516

## Section 1 Product and Company Identification

Product code: RF1516 Product name: GL-Resolving Buffer B

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, 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.

### GHS CLASSIFICATION

Signal Word

DANGER

Hazard pictograms



Hazard Statements

H301 - Toxic if swallowed  
H411 - Toxic to aquatic life with long lasting effects  
H312 + H332 - Harmful in contact with skin or if inhaled  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H317 - May cause an allergic skin reaction  
H372 - Causes damage to organs through prolonged or repeated exposure  
H350 - May cause cancer  
H340 - May cause genetic defects  
H361 - Suspected of damaging fertility or the unborn child

### Precautionary Statements

Prevention

P264 - Wash hands thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P201 - Obtain special instructions before use  
P260 - Do not breathe dust/fume/gas/mist/vapors/spray

Response

P308 + P313 - IF exposed or concerned: Get medical advice/attention  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

Disposal

P502 - Refer to manufacturer/supplier for information on recovery/recycling

**HMIS RATING**

HEALTH	<b>2* Chronic Hazard</b>
FLAMMABILITY	<b>0</b>
REACTIVITY	<b>0</b>

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

**Section 3 Composition/ Information on Ingredients**

Ingredient	CAS-No.	EINECS-No.	Weight %
Acrylamide	79-06-1	201-173-7	9-15
Bis-Acrylamide	110-26-9	203-750-9	0.3-0.5

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. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED	

H301 - Toxic if swallowed H312 + H332 - Harmful in contact with skin or if inhaled H315 - Causes skin irritation H319 - Causes serious eye irritation H317 - May cause an allergic skin reaction H372 - Causes damage to organs through prolonged or repeated exposure H350 - May cause cancer H340 - May cause genetic defects H361 - Suspected of damaging fertility or the unborn child

**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	Soak up with inert absorbent material.

**Section 7 Handling and Storage**

SAFE HANDLING	Avoid inhalation, contact with eyes and skin. Always wear recommended Personal Protective Equipment.
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**SAFE STORAGE**

Keep container tightly sealed in cool, well-ventilated area. Store in accordance with local regulations.

**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.

**HAZARDOUS DECOMPOSITION PRODUCT**

Hazardous Decomposition Products No data available.

**HAZARDOUS POLYMERIZATION**

Hazardous Polymerization No data available.

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

<b>Ingredient</b>	<b>Oral LD50</b>	<b>Dermal LD50</b>	<b>Inhalation LC50</b>
Acrylamide	= 177 mg/kg	= 1148 mg/kg	No data available
Bis-Acrylamide	= 390 mg/kg (Rat)	No data available	No data available

**PRINCIPAL ROUTES OF EXPOSURE**

Skin corrosion/irritation	Skin irritation Serious eye damage/eye irritation
Respiratory or skin sensitization	May cause sensitization by skin contact
Specific target organ toxicity (STOT)–repeated exposure	Target organ(s): Blood
Carcinogenicity	Contains a known or suspected carcinogen
Germ cell mutagenicity	Product is or contains a chemical which may cause mutations in the germ cells of humans.
Reproductive toxicity	May cause adverse reproductive effects - such as birth defect, miscarriages, or infertility

**Section 12 Ecological Information****TOXICITY**

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



Chemical Name	Toxicity to algae	Toxicity to daphnia and other aquatic invertebrates	Toxicity to fish	Microtox Data	log Pow
Acrylamide	No data available	Daphnia magna EC50=98 mg/L (48 h)	No data available	No data available	logPow-0.9
Bis-Acrylamide	No data available	No data available	No data available	No data available	logPow-0.08

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. 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

Not regulated

ENVIRONMENTAL HAZARDS

Not Applicable

SPECIAL PRECAUTIONS FOR USER

Not Applicable

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

Not Applicable

### **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 #	Weight %	SARA 313 - Threshold Values%
Acrylamide	7758-99-8	9-30	0.1

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

This product contains the following HAPs

Ingredient	CAS #	Weight %	HAPS data
Acrylamide	7758-99-8	9-30	Present

US STATE REGULATIONS

California Proposition 65

This product contains the following Proposition 65 chemicals:

Ingredient	CAS #	Weight %	Category
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Acrylamide	7758-99-8	9-30	Carcinogen Developmental Male Reproductive
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WHMIS Hazard Class

D1B - Toxic materials

## **Section 16      Other Information**

Date of last revision: Sep 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**



# SAFETY DATA SHEET

Document: MS8137-A  
Release date: Aug 18, 2024

Applies to part numbers:  
MS8137

## Section 1 Product and Company Identification

Product code: MS8137 Product name: GL-PAGE Gel Running Buffer Instant Granules

Supplier: YAMAYBIO INC

Address: 6191 Cornerstone Court, Suite 107, San Diego, CA 92121, 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

Chemical characterization: Mixtures

Ingredient	CAS No.	EINECS-No	Weight %
Tris Base	77-86-1	201-64-4	10-15
Tris (Hydroxymethyl) Aminomethane Hydrochloride	1185-53-1	214-684-5	2-10

There are no other ingredients present which within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous according to the OSHA Hazard Communications Standard (29 CFR 1910.1200) and require reporting in this section.

## Section 4 First Aid Measures

ORAL EXPOSURE If swallowed, wash out mouth with water provided person is conscious. Call a physician.

INHALATION EXPOSURE If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.

DERMAL EXPOSURE In case of contact, wash skin with 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.

## 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	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## **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.
ENVIRONMENTAL PRECAUTIONS	No special environmental precautions required.
METHODS AND MATERIAL FOR CONTAINMENT	Soak up with inert absorbent material.

## **Section 7      Handling and Storage**

SAFE HANDLING	Use personal protective equipment as required. No special handling advices are necessary.
SAFE STORAGE	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers. Store in accordance with local regulations.

## **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	White or off-white Granules
Solvent Content	N/A

## **Section 10      Stability and Reactivity**

STABILITY	Stable under normal conditions.
Materials to Avoid	Strong oxidizing agents, metals, acids.
HAZARDOUS DECOMPOSITION PRODUCT	
Hazardous Decomposition Products	No dangerous decomposition products known
HAZARDOUS POLYMERIZATION	
Hazardous Polymerization	No data available.

## **Section 11      Toxicological Information**

ROUTE OF EXPOSURE	
Skin Contact	May cause skin irritation.
Skin Absorption	May be harmful if absorbed through the skin.

Eye Contact	May cause eye irritation.
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.
Ingestion	May be harmful if swallowed.

#### SIGNS AND SYMPTOMS OF EXPOSURE

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

### **Section 12 Ecological Information**

Toxicity	The environmental impact of this product has not been fully investigated.
Persistence and degradability	No further relevant information available.
Bioaccumulative potential	No further relevant information available.
General notes	Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
Results of PBT and vPvB assessment	No 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. 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	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 contain HAPs.

#### US STATE REGULATIONS

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

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

### **Section 16 Other Information**

Date of last revision:	Aug 18, 2024
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**End of Safety Data Sheet**