

# **HighPrep HMW DNA Kit**

Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 12/01/2023 Issue Date: 12/01/2023 Version 0

# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Product Name: HighPrep HMW DNA Kit

**Intended Use for the Product:** 

Use of the substance/mixture: Research Use Only

Name, Address, and Telephone of the Responsible Party

Magbio Genomics 944 Clopper Road Gaithersburg, MD 20878 USA (301) 302-0144

**Emergency telephone number** 

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

# **Section 2: List of Components**

- HAS Buffer
- HTS Buffer
- HMW1 Buffer
- HMW2 Buffer
- MB Elution Buffer
- Pro K Solution
- MAG-HM1 Particles
- RNase A



## Material Safety Data Sheet

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Component Name: HAS Buffer

**Intended Use for the Product:** 

Use of the substance/mixture: Research Use Only

#### Name, Address, and Telephone of the Responsible Party

Magbio Genomics 944 Clopper Road Gaithersburg, MD 20878 USA (301) 302-0144

# **Emergency telephone number**

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

### Sect on 2: Hazards Identification

#### Classification of the substance or mixture

**OSHA Hazards** 

Target Organ Effect, Toxic by Ingestion, Irritant

**Target Organs** 

Bone Marrow, Nerves

**GHS-US Classification** 

Acute Toxicity, Oral (Category 4)
Acute Toxicity, Inhalation (Category 3)
Skin Irritation (Category 2)
Eye Irritation (Category 2A)

#### **Label Elements**

GHS – US labeling Hazard Pictograms (GHS-US)



Signal Word (GHS-US) WARNING

Hazard Statements (GHS-US) H302 Harmful if Swallowed

H315 Causes Skin Irritation

H319 Causes Serious Eye Irritation

H331 Toxic if Inhaled

Precautionary Statements (GHS-US) P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. P311 Call a POISON CENTER or doctor/physician.

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**HMIS Classification (Scale 0-4)** 

Health Hazard 2 Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 2
Fire 0
Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

## Section 3: Composition/information on ingredients

Composition: Mixture of the substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
Guanidine Hydrochloride	(CAS No.) 50-01-1 (EC No.) 200-002-3 (Index No.) 607-148-00-0	25-50	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319

Full text of H-phrases: see section 16

## Section 4: First aid measures

#### **Description of first aid measures**

First Aid Measures General: Exit to a safe area. Consult a physician. Seek medical attention.

**First Aid Measures after Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Seek medical attention **First Aid Measures after Skin Contact:** Exit to safe area. Wash thoroughly with soap and water. Seek medical attention **First Aid Measures after Eye Contact:** Flush eyes with clean water for a minimum of 15 minutes keeping eyes open. Seek medical attention.

**First Aid Measures after Ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

## Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: Harmful if absorbed through skin. May cause skin irritation

Symptoms/Injuries after inhalation: Toxic if Inhaled. May cause respiratory tract irritation.

Symptoms/Injuries after eye contact: Causes eye irritation Symptoms/Injuries after ingestion: Harmful if swallowed

Other Symptoms/Injuries: May cause nervous system disturbances in the case of an aggravated medical condition.

## Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

#### **Section 5: Firefighting Measures**

#### **Extinguishing media**

Suitable extinguishing media: Dry Powder, CO2, Water Spray, or Regular Foam

Unsuitable extinguishing media:

#### Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>), Nitrogen oxides (NOx), Hydrogen Chloride Gas.

Reactivity:

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## **Advice for Firefighters**

**Firefighting instructions:** Prevent fire-fighting water from entering surface water or ground water. **Protection during firefighting:** Wear self-contained breathing apparatus, if necessary

#### Sect on 6: Accidental release measures

## Personal precautions, protective equipment, and emergency procedures

**General Measures:** Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal Protection for further details.

#### **Environmental Precautions**

Prevent further leakage if area is safe. Do not let product enter drains. Avoid discharge into the environment.

## Methods and material for containment and cleaning up

Use inert absorbent material to soak up spill. Dispose of hazardous waste. Do not flush with water.

#### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

# Sect on 7: Handling and Storage

#### **Precautions for safe handling**

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

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

**Storage conditions:** Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture **Incompatible products:** Strong oxidizing agents

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

Exposure Controls	This product does not contain any substances with occupational exposure limit value	ues.
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory equipment. Use respirators that have been approved by NIOSH.	
Hand Protection	Use gloves when handling this product. Inspect gloves prior to use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.	
Eye Protection	Use a face shield and/or safety googles when handling this product. Use eye ware that has been approved by NIOSH.	
Skin and Body Protection	Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.	
Hygiene Measures	Avoid contact with eyes, skin, and clothing. Wash hands	

thoroughly after using this product.

# Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

# **Section 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Physical State Liquid Color Colorless

Odor No data available **Odor Threshold** No data available No data available Relative evaporation rate No data available **Melting Point** No data available **Freezing Point** No data available No data available **Boiling Point Flash Point** No data available No data available **Auto-ignition temperature Decomposition Temperature** No data available Flammability (Solid, Gas) No data available **Vapor Pressure** No data available Relative vapor density at 20°C No data available **Relative Density** No data available Density No data available Solubility No data available Log Pow No data available No data available Log Kow No data available Viscosity, kinematic Viscosity, dynamic No data available No data available **Explosive properties** 

**Other Information** 

# Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Heating

Incompatible Materials: Strong acids, strong oxidizing agents, organic materials

Hazardous Decomposition Products: Carbon oxides (COx), Nitrogen oxides (NOx), hydrogen chloride gas

# **Section 11: Toxicological Information**

#### **Information on Toxicological Effects**

Acute Toxicity:

Acute Toxicity.	
Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information on Acute Toxicity	No data available

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Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensation: Components of the product may be absorbed into the body through the skin. Irritating to

skin and mucous membranes.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

**IARC:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (Single Exposure) No data available Specific Target Organ Toxicity (Repeated Exposure) No data available

**Aspiration hazard:** No data available

**Potential Health Effects:** 

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** Toxic if swallowed

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

**Signs/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: no data available

Persistence and Degradability: no data available Bio accumulative Potential: no data available

Mobility in Soil: no data available

Other Adverse Effects: Harmful to aquatic life

**Other Information** 

## **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

S29 - Do not empty into drains

S57 - Use appropriate container to avoid environmental contamination Refer to Section 7: Handling and Storage and Section 8:

Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

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## **Section 15: Regulatory Information**

OSHA Hazards: Target organ effect, Toxic by ingestion, Irritant

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components: This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard, Chronic Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	No components are subject to the Ma	assachusetts Right to Know Act.
Pennsylvania	Guanidine Hydrochloride	50-01-1
	Water	7732-18-5
New Jersey	Guanidine Hydrochloride	50-01-1
	Water	7732-18-5

California Prop. 65 Components: This product does not contain any chemicals listed by the State of California's Proposition 65.

# **Section 16: Other Information**

#### **GHS Full Text Phrases**

Acute Tox.	Acute Toxicity
Eye Irrit	Eye Irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit	Skin Irritation

MagBio Genomics, Inc. does not make any representations, guaranties or warranties as to the accuracy of the information provided and is intended only to describe the product for the purposes of health, safety and environmental requirement. It is expressly understood and agreed that MagBio Genomics, Inc. shall in no way be deemed or held to be obligated, liable, or accountable upon or under any guaranties or warranties, express or implied, statutory, by operation of law, or otherwise, in any manner or form, including any implied warranty of merchantability or fitness for a particular purpose, that in any way relates to or arises out of the information provided in this Safety Data Sheet.



Material Safety Data Sheet

# Sect on 1: Identification of the Substance Mixture and of the Com any/Undertaking

**Product Identifier** 

Component Name: HTS Buffer

**Intended Use for the Product:** 

Use of the substance/mixture: Research Use Only Name, Address, and Telephone of the Responsible Party

MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

## **Emergency telephone number**

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

## Sect on 2: Hazards Identification

#### Classification of the substance or mixture

**OSHA Hazards** 

No Known OSHA Hazards

**GHS-US Classification** 

Not a dangerous substance according to GHS

# **Label Elements**

GHS - US labeling

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) n/a

Precautionary Statements (GHS-US) n/a

**HMIS Classification (Scale 0-4)** 

Health Hazard 0 Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0 Fire 0

Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## Section 3: Composition/information on ingredients

#### Composition: Mixture of substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
n/a	n/a	n/a	n/a

Full text of H-phrases: see section 16

#### **Section 4: First aid measures**

#### **Description of first aid measures**

First Aid Measures General: Exit to a safe area. Consult a physician. Seek medical attention.

**First Aid Measures after Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Seek medical attention **First Aid Measures after Skin Contact:** Exit to safe area. Wash thoroughly with soap and water. Seek medical attention **First Aid Measures after Eye Contact:** Flush eyes with clean water for a minimum of 15 minutes keeping eyes open. Seek medical attention

**First Aid Measures after Ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention

#### Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: n/a

Symptoms/Injuries after inhalation: If not breathing give artificial respiration

Symptoms/Injuries after eye contact: n/a Symptoms/Injuries after ingestion: n/a Other Symptoms/ Injuries: n/a.

### Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

## **Section 5: Firefighting Measures**

## **Extinguishing media**

Suitable extinguishing media: Dry Powder, CO2, Water Spray, or Alcohol-resistant foam

Unsuitable extinguishing media:

## Special Hazards arising from the substance or mixture

**Flammability:** Not flammable or combustible **Hazardous Combustion Products:** Sodium Oxides

Reactivity:

#### **Advice for Firefighters**

Firefighting instructions: Prevent fire-fighting water from entering surface water or ground water.

Protection during firefighting: Wear self-contained breathing apparatus, if necessary

#### Section 6: Accidental release measures

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

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

Use inert absorbent material to soak up spill.

#### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

# Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## **Sect on 7: Handling and Storage**

### Precautions for safe handling

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

# Conditions for safe storage, including any incompatibilities

No special storage conditions required

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

**Exposure Controls**This product does not contain any substances with occupational exposure limit values.

**Respiratory Protection** No special protective equipment required

**Hand Protection** Use gloves when handling this product. Inspect gloves prior to

use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance

with applicable laws. Wash and dry hands after use.

Eye Protection Use a face shield and/or safety googles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection** Wear appropriate laboratory attire when handling this product

such as gloves, long pants, closed-toe shoes, and laboratory coat.

Hygiene Measures Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.







# **Sect on 9: Physical and Chemical Properties**

### Information on basic physical and chemical properties

Physical State Liquid Color Colorless

Odor No data available
Odor Threshold No data available

**pH** 6.0-8.0

Relative evaporation rate
Melting Point
No data available
Freezing Point
No data available
Boiling Point
No data available
No data available
Flash Point
No data available

# Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

No data available **Auto-ignition temperature Decomposition Temperature** No data available No data available Flammability (Solid, Gas) **Vapor Pressure** No data available No data available Relative vapor density at 20°C **Relative Density** No data available Density No data available Solubility No data available **Log Pow** No data available No data available **Log Kow** Viscosity, kinematic No data available Viscosity, dynamic No data available **Explosive properties** No data available

**Other Information** 

## Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: n/a

**Conditions to Avoid:** n/a **Incompatible Materials:** n/a

Hazardous Decomposition Products: n/a

# **Section 11: Toxicological Information**

## **Information on Toxicological Effects**

**Acute Toxicity:** 

, 100.00 107.1011	
Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information on Acute Toxicity	No data available

Skin Corrosion/Irritation: No data available Serious Eye Damage/Irritation: No data available Respiratory or Skin Sensation: No data available Germ Cell Mutagenicity: No data available

Carcinogenicity:

**IARC:** No component of this product that is 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 that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (Single Exposure) No data available

# Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Specific Target Organ Toxicity (Repeated Exposure) No data available

Aspiration hazard: No data available

Potential Health Effects: Inhalation: n/a Ingestion: n/a Skin: n/a. Eyes: n/a.

Signs/Symptoms of Exposure:

## **Section 12: Ecological Information**

Toxicity: no data available

Persistence and Degradability: no data available Bio accumulative Potential: no data available

Mobility in Soil: no data available

Other Adverse Effects: no data available

**Other Information** 

#### **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

# **Section 15: Regulatory Information**

OSHA Hazards: n/a

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302. **SARA 313 Components:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard

California Prop. 65 Components: This product does not contain any chemicals listed by the State of California's Proposition 65.

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According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

# **Section 16: Other Information**

## **GHS Full Text Phrases**

n/a

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Material Safety Data Sheet

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Component Name: HMW1 Buffer

**Intended Use for the Product:** 

Use of the substance/mixture: Research Use Only Name, Address, and Telephone of the Responsible Party

MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

**Emergency telephone number** 

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

## **Sect on 2: Hazards Identification**

#### Classification of the substance or mixture

**OSHA Hazards** 

Target Organ Effect, Toxic by Ingestion, Irritant

#### **GHS-US Classification**

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)

#### **Label Elements**

GHS – US labeling Hazard Pictograms (GHS-US)



Signal Word (GHS-US) WARNING

**Hazard Statements (GHS-US)** H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H331 Toxic if inhaled

Precautionary Statements (GHS-US) P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P311 Call a POISON CENTER or doctor/physician

#### Safety Data Sheet

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**HMIS Classification (Scale 0-4)** 

Health Hazard 2

Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 2

Fire 0

Reactivity Hazard 0

**Unknown acute toxicity (GHS-US)** 

# Section 3: Composition/information on ingredients

## Composition: Mixture of substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
Guanidine Hydrochloride	(CAS No.) 50-01-1 (EC No.) 200-002-3 (Index No.) 607-148-00-0	25-50	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319

Full text of H-phrases: see section 16

# Section 4: First aid measures

#### **Description of first aid measures**

First Aid Measures General: Exit to a safe area. Consult a physician. Seek medical attention.

**First Aid Measures after Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Seek medical attention **First Aid Measures after Skin Contact:** Exit to safe area. Wash thoroughly with soap and water. Seek medical attention **First Aid Measures after Eye Contact:** Flush eyes with clean water for a minimum of 15 minutes keeping eyes open. Seek medical attention

**First Aid Measures after Ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention

## Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: Harmful if absorbed through skin. May cause skin irritation

Symptoms/Injuries after inhalation: Toxic if Inhaled. May cause respiratory tract irritation

**Symptoms/Injuries after eye contact:** Causes eye irritation **Symptoms/Injuries after ingestion:** Harmful if swallowed

Other Symptoms/ Injuries: May cause nervous system disturbances in the case of an aggravated medical condition.

## Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

## **Section 5: Firefighting Measures**

### **Extinguishing media**

Suitable extinguishing media: Dry Powder, CO<sub>2</sub>, Water Spray, or Regular Foam

Unsuitable extinguishing media:

#### Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>), Nitrogen oxides (NOx), Hydrogen Chloride gas

Reactivity:

#### **Advice for Firefighters**

Firefighting instructions: Prevent fire-fighting water from entering surface water or ground water.

**Protection during firefighting:** Wear self-contained breathing apparatus, if necessary

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#### **Section 6: Accidental Release Measures**

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

General Measures: Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal Protection for further details.

#### **Environmental Precautions**

Prevent further leakage if area is safe. Do not let product enter drains. Avoid discharge into the environment.

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

Use inert absorbent material to soak up spill. Dispose of as hazardous waste. Do not flush with water.

#### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

### **Section 7: Handling and Storage**

#### **Precautions for safe handling**

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture

**Incompatible products:** Strong oxidizing agents

Specific end use(s)

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

Exposure Controls	This product does not contain any substances with occupational exposure limit va	
Respiratory Protection	In case of insufficient ventilation wear suitable respiratory	

equipment. Use respirators that have been approved by NIOSH.

Hand Protection

Use gloves when handling this product. Inspect gloves prior to

use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance

with applicable laws. Wash and dry hands after use.

Eye Protection Use a face shield and/or safety googles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection** Wear appropriate laboratory attire when handling this product

such as gloves, long pants, closed-toe shoes, and laboratory coat. \\

**Hygiene Measures** Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.







# Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## **Section 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Physical State Liquid Color Colorless

No data available Odor **Odor Threshold** No data available No data available рΗ Relative evaporation rate No data available **Melting Point** No data available **Freezing Point** No data available **Boiling Point** No data available **Flash Point** No data available **Auto-ignition temperature** No data available **Decomposition Temperature** No data available Flammability (Solid, Gas) No data available **Vapor Pressure** No data available Relative vapor density at 20°C No data available **Relative Density** No data available Density No data available Solubility No data available Log Pow No data available Log Kow No data available Viscosity, kinematic No data available No data available Viscosity, dynamic **Explosive properties** No data available

**Other Information** 

# Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

**Conditions to Avoid: Heating** 

Incompatible Materials: Strong acids, strong oxidizing agents, organic materials

Hazardous Decomposition Products: Carbon oxides (COx), Nitrogen oxides (NOx), hydrogen chloride gas

# **Section 11: Toxicological Information**

## **Information on Toxicological Effects**

**Acute Toxicity:** 

	7.100.10 1.0711.011.1	
Γ	Oral LD50	No data available
	Inhalation LC50	No data available
	Dermal LD50	No data available
Γ	Other Information on Acute Toxicity	No data available

# Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

**Skin Corrosion/Irritation:** No data available **Serious Eye Damage/Irritation:** No data available

Respiratory or Skin Sensation: Components of the product may be absorbed into the body through the skin. Irritating to

skin and mucous membranes.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

**IARC:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available

**Specific Target Organ Toxicity (Single Exposure)** No data available **Specific Target Organ Toxicity (Repeated Exposure)** No data available

Aspiration hazard: No data available

**Potential Health Effects:** 

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** Toxic if swallowed

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

**Signs/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: no data available

Persistence and Degradability: no data available Bio accumulative Potential: no data available

Mobility in Soil: no data available

Other Adverse Effects: Harmful to aquatic life

**Other Information** 

## **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

S29 - Do not empty into drains

S57 - Use appropriate container to avoid environmental contamination

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

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# Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## **Section 15: Regulatory Information**

OSHA Hazards: Target Organ Effect, Toxic by ingestion, Irritant

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302. **SARA 313 Components:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard, Chronic Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	No components are subject to the I	Massachusetts Right to Know Act.
Pennsylvania	Guanidine Hydrochloride	50-01-1
	Water	7732-18-5
New Jersey	Guanidine Hydrochloride	50-01-1
	Water	7732-18-5

California Prop. 65 Components: This product does not contain any chemicals listed by the State of California's Proposition 65.

## **Section 16: Other Information**

#### **GHS Full Text Phrases**

Acute Tox.	Acute Toxicity
Eye Irrit	Eye Irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit.	Causes serious eye irritation

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Material Safety Data Sheet

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Component Name: HMW2 Buffer

**Intended Use for the Product:** 

Use of the substance/mixture: Research Use Only Name, Address, and Telephone of the Responsible Party

MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

**Emergency telephone number** 

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

## **Sect on 2: Hazards Identification**

### Classification of the substance or mixture

**OSHA Hazards** 

Target Organ Effect, Toxic by Ingestion, Irritant

**GHS-US Classification** 

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 3)
Skin irritation (Category 2)
Eye irritation (Category 2A)

**Label Elements** 

GHS – US labeling Hazard Pictograms (GHS-US)



Signal Word (GHS-US) WARNING

Hazard Statements (GHS-US) H302 Harmful if swallowed

H315 Causes skin irritation

H319 Causes serious eye irritation

H331 Toxic if inhaled

Precautionary Statements (GHS-US) P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P311 Call a POISON CENTER or doctor/physician

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

HMIS Classification (Scale 0-4)

Health Hazard 2

Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 2

Fire 0

Reactivity Hazard 0

**Unknown acute toxicity (GHS-US)** 

# Section 3: Composition/information on ingredients

## Composition: Mixture of substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
Guanidine Hydrochloride	(CAS No.) 50-01-1 (EC No.) 200-002-3 (Index No.) 607-148-00-0	25-50	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302, H315, H319

Full text of H-phrases: see section 16

## Section 4: First aid measures

#### **Description of first aid measures**

First Aid Measures General: Exit to a safe area. Consult a physician. Seek medical attention.

**First Aid Measures after Inhalation:** Move to fresh air. If not breathing, give artificial respiration. Seek medical attention **First Aid Measures after Skin Contact:** Exit to safe area. Wash thoroughly with soap and water. Seek medical attention **First Aid Measures after Eye Contact:** Flush eyes with clean water for a minimum of 15 minutes keeping eyes open. Seek medical attention

**First Aid Measures after Ingestion:** Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention

## Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: Harmful if absorbed through skin. May cause skin irritation

Symptoms/Injuries after inhalation: Toxic if Inhaled. May cause respiratory tract irritation

**Symptoms/Injuries after eye contact:** Causes eye irritation **Symptoms/Injuries after ingestion:** Harmful if swallowed

Other Symptoms/Injuries: May cause nervous system disturbances in the case of an aggravated medical condition.

## Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

## **Section 5: Firefighting Measures**

### **Extinguishing media**

Suitable extinguishing media: Dry Powder, CO<sub>2</sub>, Water Spray, or Regular Foam

Unsuitable extinguishing media:

#### Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible

Hazardous Combustion Products: Carbon oxides (CO, CO<sub>2</sub>), Nitrogen oxides (NOx), Hydrogen Chloride gas

Reactivity:

#### **Advice for Firefighters**

Firefighting instructions: Prevent fire-fighting water from entering surface water or ground water.

**Protection during firefighting:** Wear self-contained breathing apparatus, if necessary

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## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

#### **Section 6: Accidental Release Measures**

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

**General Measures:** Wear respiratory protection. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas. See Section 8: Exposure Controls/Personal Protection for further details.

#### **Environmental Precautions**

Prevent further leakage if area is safe. Do not let product enter drains. Avoid discharge into the environment.

### Methods and material for containment and cleaning up

Use inert absorbent material to soak up spill. Dispose of as hazardous waste. Do not flush with water.

#### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

# **Section 7: Handling and Storage**

#### **Precautions for safe handling**

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep containers tightly closed in a dry, cool, and well-ventilated place. Protect from moisture

**Incompatible products:** Strong oxidizing agents

Specific end use(s)

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

Exposure Controls	This product does not contain any substances with occupational exposure limit values.

Respiratory Protection	In case of insufficient ventilation wear suitable respiratory	
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equipment. Use respirators that have been approved by NIOSH.

**Hand Protection** Use gloves when handling this product. Inspect gloves prior to

use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance

with applicable laws. Wash and dry hands after use.

**Eye Protection** Use a face shield and/or safety googles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection** Wear appropriate laboratory attire when handling this product

such as gloves, long pants, closed-toe shoes, and laboratory coat.

**Hygiene Measures** Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.







# Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

# **Section 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Physical State Liquid Color Colorless

Odor No data available **Odor Threshold** No data available No data available pН Relative evaporation rate No data available **Melting Point** No data available **Freezing Point** No data available **Boiling Point** No data available **Flash Point** No data available **Auto-ignition temperature** No data available **Decomposition Temperature** No data available Flammability (Solid, Gas) No data available **Vapor Pressure** No data available Relative vapor density at 20°C No data available **Relative Density** No data available Density No data available Solubility No data available Log Pow No data available Log Kow No data available Viscosity, kinematic No data available No data available Viscosity, dynamic **Explosive properties** No data available

**Other Information** 

# Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: Heating

Incompatible Materials: Strong acids, strong oxidizing agents, organic materials

Hazardous Decomposition Products: Carbon oxides (COx), Nitrogen oxides (NOx), hydrogen chloride gas

## **Section 11: Toxicological Information**

## Information on Toxicological Effects

Acute Toxicity:

, 100100 . 070, .	
Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information on Acute Toxicity	No data available

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Skin Corrosion/Irritation: No data available
Serious Eye Damage/Irritation: No data available

Respiratory or Skin Sensation: Components of the product may be absorbed into the body through the skin. Irritating to

skin and mucous membranes.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

**IARC:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

**Reproductive Toxicity:** No data available

**Specific Target Organ Toxicity (Single Exposure)** No data available **Specific Target Organ Toxicity (Repeated Exposure)** No data available

Aspiration hazard: No data available

**Potential Health Effects:** 

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** Toxic if swallowed

**Skin:** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes:** Causes eye irritation.

**Signs/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: no data available

**Persistence and Degradability:** no data available **Bio accumulative Potential:** no data available

Mobility in Soil: no data available

Other Adverse Effects: Harmful to aquatic life

**Other Information** 

## **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

S29 - Do not empty into drains

S57 - Use appropriate container to avoid environmental contamination

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

# **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

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## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

# **Section 15: Regulatory Information**

OSHA Hazards: Target Organ Effect, Toxic by ingestion, Irritant

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302.

SARA 313 Components: This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard, Chronic Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	No components are subject to the I	Massachusetts Right to Know Act.
Pennsylvania	Guanidine Hydrochloride	50-01-1
	Water	7732-18-5
New Jersey	Guanidine Hydrochloride	50-01-1
	Water	7732-18-5

California Prop. 65 Components: This product does not contain any chemicals listed by the State of California's Proposition 65.

## **Section 16: Other Information**

#### **GHS Full Text Phrases**

Acute Tox.	Acute Toxicity
Eye Irrit	Eye Irritation
H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit.	Causes serious eye irritation

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Material Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 12/01/2023 Issue Date: 12/01/2023 Version 0

# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Component Name: Pro K Solution

**Intended Use for the Product:** 

Use of the substance/mixture: Research use only Name, Address, and Telephone of the Responsible Party

> MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

**Emergency telephone number** 

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

#### **Section 2: Hazards Identification**

#### Classification of the substance or mixture

**OSHA Hazards** 

Target organ effect **Respiratory Sensitizer** Irritant

**GHS-US Classification** 

Skin Irritation (Category 2) Skin Sensitizer (Category 1) Eye Irritation (Category 2)

Respiratory Sensitization (Category 1)

**Label Elements** 

**GHS – US labeling** 

**Hazard Pictograms (GHS-US)** 



Signal Word (GHS-US)

**Hazard Statements (GHS-US)** H317 May cause an allergic skin reaction

H315 Causes skin irritation

H319 Causes serious eye irritation

H334 May cause allergy or asthma symptoms or breathing difficulties

if inhaled

H335 May cause respiratory irritation

**Precautionary Statements (GHS-US)** P280 Wear protective gloves/protective clothing/eye protection/face

protection

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing

12/01/2023 EN (English US) 26 / 48 P342+P311 If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/ physician.

HMIS Classification (Scale 0-4)

Health Hazard 2
Flammability 1
Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 2
Fire 1
Reactivity Hazard 0

**Unknown acute toxicity (GHS-US)** 

# **Section 3: Composition/information on ingredients**

Composition: Mixture of substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
Proteinase K	(CAS No.) 39450-01-6 (EC No.) 254-457-8 (Index No.) 647-014-00-9	1-5	Skin Irrit.2, Eye Irrit.2, Resp. Sens.1, Skin Irrit. 1, STOT SE 3, H315, H 319, H 334, H335
Glycerol	(CAS No.) 56-81-5 (EC No.) 200-289-5	30-60	

Full text of H-phrases: see section 16

## **Section 4: First aid measures**

#### **Description of first aid measures**

**First Aid Measures General:** Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance

**First Aid Measures after Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

First Aid Measures after Skin Contact: Wash off with soap and plenty of water. Consult a physician.

**First Aid Measures after Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician **First Aid Measures after Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

#### Most Important Symptoms and Effects, both acute and delayed

**Symptoms/Injuries:** May be harmful if absorbed through skin. Causes skin irritation.

Symptoms/Injuries after inhalation: May cause respiratory tract irritation

**Symptoms/Injuries after eye contact:** Causes eye irritation. **Symptoms/Injuries after ingestion:** May be harmful if swallowed.

# Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

### **Section 5: Firefighting Measures**

#### **Extinguishing media**

**Suitable extinguishing media:** Dry powder, CO2, water spray, or alcohol-resistant foam.

Unsuitable extinguishing media:

# Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible.

Hazardous Combustion Products: n/a

Reactivity:

#### Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

### **Advice for Firefighters**

Firefighting instructions:

Protection during firefighting: Wear self-contained breathing apparatus, if necessary.

# Section 6: Accidental release measures

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

**General Measures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. Use personal protective equipment.

#### **Environmental Precautions**

Do not let product enter drains

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

Absorb on sand or vermiculite and place in closed containers for disposal. Pick up and transfer to properly labeled containers. Ensure proper ventilation and cleaning of spill site.

#### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

## **Section 7: Handling and Storage**

### Precautions for safe handling

Avoid contact with skin and eyes

### Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep container tightly closed in a dry and well-ventilated place. Recommended Storage Temperature 2-8°C

Incompatible products: n/a

Specific end use(s)

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

#### **Exposure Controls**

Components	CAS-No.	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air
				Contaminants -1910.1000
		TWA	5 mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air
				Contaminants -
				1910.1000
		TWA	10 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)

### Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Respiratory Protection For nuisance exposures use type P95 (US) or type P1 (EU EN 143)

particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator

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

CEN (EU).

**Hand Protection** Use gloves when handling this product. Inspect gloves prior to

use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance

with applicable laws. Wash and dry hands after use.

**Eye Protection** Use a face shield and/or safety googles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection**Complete suit protecting against chemicals. The type of

protective equipment must be selected according to the concentration and amount of the dangerous substance at the

specific workplace.

**Hygiene Measures** Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.









# **Sect on 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Physical State Liquid

Clear/Slight Yellow Color No data available Odor **Odor Threshold** No data available No data available pН Relative evaporation rate No data available **Melting Point** No data available No data available **Freezing Point** No data available **Boiling Point** No data available **Flash Point Auto-ignition temperature** No data available No data available **Decomposition Temperature** Flammability (Solid, Gas) No data available No data available **Vapor Pressure** No data available Relative vapor density at 20°C No data available **Relative Density** Density No data available No data available Solubility Log Pow No data available No data available Log Kow No data available Viscosity, kinematic No data available Viscosity, dynamic

**Explosive properties** 

**Other Information** 

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No data available

### Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

#### Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended conditions

Possibility of Hazardous Reactions n/a

Conditions to Avoid n/a Incompatible Materials n/a

Hazardous Decomposition Products n/a

## **Section 11: Toxicological Information**

#### **Information on Toxicological Effects**

Acute Toxicity: Proteinase K Glycerol Oral LD50 No data available 12,600 mg/kg (rat) Inhalation LC50 No data available >10,000 mg/kg (Rabbit) Dermal LD50 No data available Other information on Acute Toxicity No data available

Skin Corrosion/Irritation: No data available Serious Eve Damage/Irritation: No data available Respiratory or Skin Sensation: No data available

Germ Cell Mutagenicity: No data available

Carcinogenicity:

IARC: No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Mild skin irritation 24 hrs. (rabbit)

Mild eye irritation 24 hrs. (rabbit)

**ACGIH:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

NTP: No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

OSHA: No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (Single Exposure) No data available Specific Target Organ Toxicity (Repeated Exposure) No data available

Aspiration hazard: No data available

**Potential Health Effects:** 

Inhalation: May be harmful if inhaled Ingestion: May be harmful if swallowed Skin: May be harmful if absorbed through skin

Eyes: Causes eye irritation

## **Section 12: Ecological Information**

**Toxicity** 

To Fish >5,000 mg/L Carassius Auratus (Goldfish)

44,000 mg/L Pimephales Promelas (Fathead Minnow)

>100,100 mg/L other fish

67,500 mg/L Oncorhynchus Mykiss (Rainbow Trout)

Persistence and Degradability: No data available

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### Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Bio accumulative Potential: No data available

Mobility in Soil: No data available
Other Adverse Effects: No data available
Other Information: No data available

## **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

# **Section 15: Regulatory Information**

OSHA Hazards: Target Organ Effect, Respiratory sensitizer, Irritant

**SARA 302 Components:** SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**SARA 313 Components:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	Glycerol	56-81-5
	Proteinase K	39450-01-6
Pennsylvania	Glycerol	56-81-5
	Proteinase K	39450-01-6
New Jersey	Glycerol	56-81-5
	Proteinase K	39450-01-6

California Prop. 65 Components: This product does not contain any chemicals listed in the State of California's Proposition 65.

#### **Section 16: Other Information**

## GHS Full Text Phrases: n/a

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Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 12/01/2023 Issue Date: 12/01/2023 Version 0

# Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Component Name: MB Elution Buffer

**Intended Use for the Product:** 

Use of the substance/mixture: Research use only Name, Address, and Telephone of the Responsible Party

MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

**Emergency telephone number** 

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

## Sect on 2: Hazards Identification

#### Classification of the substance or mixture

**OSHA Hazards** 

No known OSHA hazards

**GHS-US Classification** 

Not a dangerous substance according to GHS

**Label Elements** 

GHS - US labeling

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) n/a

Precautionary Statements (GHS-US) n/a

HMIS Classification (Scale 0-4)

Health Hazard 0 Flammability 0 Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0 Fire 0 Reactivity Hazard 0

**Unknown acute toxicity (GHS-US)** 

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#### Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

### Section 3: Composition/information on ingredients

Composition: Mixture of substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
n/a	n/a	n/a	n/a

Full text of H-phrases: see section 16

#### Section 4: First aid measures

#### **Description of first aid measures**

First Aid Measures General: Wear protective gloves/protective clothing/eye protection/face protection

First Aid Measures after Inhalation: If not breathing, give artificial respiration

First Aid Measures after Skin Contact: Wash with soap and water

First Aid Measures after Eye Contact: Remove contact lenses if present and easy to do. Continue rinsing

First Aid Measures after Ingestion: n/a

#### Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries:

**Symptoms/Injuries after inhalation:** May cause respiratory tract irritation

Symptoms/Injuries after eye contact:

Symptoms/Injuries after ingestion: May be harmful if swallowed Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

# **Section 5: Firefighting Measures**

## **Extinguishing media**

Suitable extinguishing media: Dry powder, CO2, water spray, or alcohol-resistant foam

Unsuitable extinguishing media:

# Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible

Hazardous Combustion Products: n/a

Reactivity:

#### **Advice for Firefighters**

Firefighting instructions: Prevent fire-fighting water from entering surface water or groundwater

**Protection during firefighting:** Wear self-contained breathing apparatus, if necessary

## **Section 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

**General Measures:** 

**Environmental Precautions:** 

#### Methods and material for containment and cleaning up:

### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

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# Sect on 7: Handling and Storage

#### **Precautions for safe handling**

Handle in accordance with good chemical hygiene and safety practices. Protect from moisture. Avoid contact with eyes. Avoid inhalation of vapor or mist.

### Conditions for safe storage, including any incompatibilities

Storage conditions: No special storage conditions required

Incompatible products: n/a

Specific end use(s)

**Eve Protection** 

### Sect on 8: Expos re controls/ personal protection

**Exposure Controls**This product does not contain any substances with occupational exposure limit values.

**Respiratory Protection** No special protective equipment required

**Hand Protection** Use gloves when handling this product. Inspect gloves prior to

use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance

with applicable laws. Wash and dry hands after use. Use a face shield and/or safety goggles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection** Wear appropriate laboratory attire when handling this product

such as gloves, long pants, closed-toe shoes, and laboratory coat.

**Hygiene Measures** Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.







## **Sect on 9: Physical and Chemical Properties**

#### Information on basic physical and chemical properties

Physical State Liquid Color Colorless

Odor No data available
Odor Threshold No data available

**pH** 8.0-9.0

Relative evaporation rate No data available **Melting Point** No data available **Freezing Point** No data available **Boiling Point** No data available **Flash Point** No data available **Auto-ignition temperature** No data available **Decomposition Temperature** No data available Flammability (Solid, Gas) No data available

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No data available **Vapor Pressure** Relative vapor density at 20°C No data available **Relative Density** No data available No data available Density Solubility No data available No data available Log Pow No data available Log Kow Viscosity, kinematic No data available No data available Viscosity, dynamic **Explosive properties** No data available

**Other Information** 

## Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: n/a

**Conditions to Avoid:** n/a **Incompatible Materials:** n/a

Hazardous Decomposition Products: n/a

## **Section 11: Toxicological Information**

#### **Information on Toxicological Effects**

Acute Toxicity:

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information on Acute Toxicity	No data available

Skin Corrosion/Irritation: no data available Serious Eye Damage/Irritation: no data available Respiratory or Skin Sensation: no data available Germ Cell Mutagenicity: no data available

Carcinogenicity:

**IARC:** No component of this product that is 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 that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: no data available

Specific Target Organ Toxicity (Single Exposure) no data available Specific Target Organ Toxicity (Repeated Exposure) no data available

Aspiration hazard: no data available

**Potential Health Effects:** 

# Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Inhalation: n/a Ingestion: n/a Skin: n/a Eyes: n/a

# **Section 12: Ecological Information**

Toxicity: No data available

**Persistence and Degradability:** No data available **Bio accumulative Potential:** No data available

Mobility in Soil: No data available
Other Adverse Effects: No data available
Other Information: No data available

## **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Contaminated Packaging: Disposal must be made according to official regulations

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

## **Section 15: Regulatory Information**

OSHA Hazards: n/a

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302. **SARA 313 Components:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	Water	7732-1-5
Pennsylvania	Water	7732-1-5
New Jersey	Water	7732-1-5

California Prop. 65 Components: This product does not contain any chemicals listed in the State of California's Proposition 65.

# **MB Elution Buffer**

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## **Section 16: Other Information**

GHS Full Text Phrases: n/a

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Material Safety Data Sheet

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

**Product Identifier** 

Component Name: MAG-HM1 Particles

**Intended Use for the Product:** 

Use of the substance/mixture: Research Use Only Name, Address, and Telephone of the Responsible Party

MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

**Emergency telephone number** 

**Emergency number:** 

In case of medical emergency, call 911. Contact your local Poison Control Center.

## **Sect on 2: Hazards Identification**

Classification of the substance or mixture

**OSHA Hazards** 

No Known OSHA Hazards

**GHS-US Classification** 

Not a dangerous substitute according to GHS

**Label Elements** 

GHS - US labeling

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) n/a

**Precautionary Statements (GHS-US)** n/a

**HMIS Classification (Scale 0-4)** 

Health Hazard 1 Flammability 0 Physical Hazards 2

NFPA Rating (Scale 0-4)

Health Hazard

Fire 0 Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

### **Section 3: Composition/information on ingredients**

Composition: Mixture of substances listed below with nonhazardous additions.

Hazardous Ingredients		Hazard Classification of Pure Ingredients		
Chemical Name	% by weight	EU 1272/2008 CLP/GHS	GHS	
Sodium Azide		Acute Tox. Oral 2, H300	Acute Tox. Oral 2, H300	
CAS # 26628-22-8 EINECS # 247-852-1	0.05	Aquatic Acute 1, H400	Aquatic Acute 1, H400 Aquatic	
Index # 011-004-00-7		Aquatic Long term 1, H410	Long term 1, H410	

## **Section 4: First aid measures**

### Description of first aid measures

First Aid Measures General: Wear protective gloves/protective clothing/eye protection/face protection.

**First Aid Measures after Inhalation:** If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

**First Aid Measures after Skin Contact:** In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. If pain or irritation occurs, obtain medical attention.

**First Aid Measures after Eye Contact:** If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occurs, obtain medical attention.

**First Aid Measures after Ingestion:** If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

## Most Important Symptoms and Effects, both acute and delayed

The known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

# Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

## **Section 5: Firefighting Measures**

### **Extinguishing media**

Suitable extinguishing media: Dry Powder, CO<sub>2</sub>, Water Spray, or Alcohol resistant foam

Unsuitable extinguishing media:

Special Hazards arising from the substance or mixture Flammability: Not flammable or combustible

Hazardous Combustion Products: Sodium oxides.

Reactivity: Hydrogen chloride gas, Iron oxides, silicon oxides, Cesium/cesium oxides

## **Advice for Firefighters**

Firefighting instructions: Prevent fire-fighting water from entering surface water or ground water.

**Protection during firefighting:** Wear self-contained breathing apparatus, if necessary

## **Section 6: Accidental Release Measures**

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

General Measures: Use good laboratory procedures, avoid eye and skin contact

#### **Environmental Precautions**

Contain spill to prevent migration

### Methods and material for containment and cleaning up

Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose of according to local regulations.

### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

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### Safety Data Sheet

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## **Section 7: Handling and Storage**

### Precautions for safe handling

Use good laboratory procedures, avoid eye and skin contact.

## Conditions for safe storage, including any incompatibilities

**Storage conditions:** Keep away from incompatible materials. To maintain efficacy, store according to the instructions on product labeling.

### Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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

**Exposure Controls**This product does not contain any substances with occupational exposure limit values.

**Respiratory Protection** No special protective equipment required.

**Hand Protection** Use gloves when handling this product. Inspect gloves prior to

use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance

with applicable laws. Wash and dry hands after use.

**Eye Protection** Use a face shield and/or safety googles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection** Wear appropriate laboratory attire when handling this product

such as gloves, long pants, closed-toe shoes, and laboratory coat.

**Hygiene Measures** Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.







## **Sect on 9: Physical and Chemical Properties**

## Information on basic physical and chemical properties

Physical State Liquid Color Colorless

OdorNo data availableOdor ThresholdNo data available

**pH** 6.0-8.0

Relative evaporation rate No data available **Melting Point** No data available **Freezing Point** No data available **Boiling Point** No data available **Flash Point** No data available **Auto-ignition temperature** No data available **Decomposition Temperature** No data available Flammability (Solid, Gas) No data available **Vapor Pressure** No data available

### Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Relative vapor density at 20°C No data available **Relative Density** No data available Density No data available No data available Solubility **Log Pow** No data available No data available Log Kow Viscosity, kinematic No data available Viscosity, dynamic No data available No data available **Explosive properties** 

**Other Information** 

## Section 10: Stability and reactivity

Reactivity: No data available

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available

**Incompatible Materials:** Strong oxidizing agents

Hazardous Decomposition Products: Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Iron

oxides, silicon oxides, Cesium/cesium oxides. In the event of fire: see section 5

## **Section 11: Toxicological Information**

## **Information on Toxicological Effects**

Acute Toxicity:

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information on Acute Toxicity	No data available

Skin Corrosion/Irritation: No data available Serious Eye Damage/Irritation: No data available Respiratory or Skin Sensation: No data available Germ Cell Mutagenicity: No data available

Carcinogenicity:

**IARC:** No component of this product that is 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 that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (Single Exposure) No data available Specific Target Organ Toxicity (Repeated Exposure) No data available

Aspiration hazard: No data available

Potential Health Effects: Inhalation: n/a

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Ingestion: n/a Skin: n/a Eyes: n/a

## Section 12: Ecological Information

Toxicity: no data available

Persistence and Degradability: no data available Bio accumulative Potential: no data available

Mobility in Soil: no data available

Other Adverse Effects: no data available

**Other Information** 

### **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

## **Section 15: Regulatory Information**

OSHA Hazards: n/a

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302. **SARA 313 Components:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Acute Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	Sodium Azide	26628-22-8
Pennsylvania	Sodium Azide	26628-22-8
New Jersey	Sodium Azide	26628-22-8

California Prop. 65 Components: This product does not contain any chemicals listed by the State of California's Proposition 65.

### **Section 16: Other Information**

#### **GHS Full Text Phrases**

n/a

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## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## Section 1: Identification of the Substance/Mixture and of the Company/Undertaking

#### **Product Identifier**

Component Name: RNase A

## **Intended Use for the Product:**

Use of the substance/mixture: Research Use Only Name, Address, and Telephone of the Responsible Party

Magbio Genomics 944 Clopper Road Gaithersburg, MD 20878 (301) 302-0144

## **Emergency telephone number**

### **Emergency number:**

In case of medical emergency, call 911. Contact your local Poison Control Center.

## **Section 2: Hazards Identification**

## Classification of the substance or mixture

**OSHA Hazards** 

Target Organ Effect: Kidney

**GHS-US Classification** 

Skin Irritation Eye Irritation

#### **Label Elements**

GHS - US labeling

**Hazard Pictograms (GHS-US)** 



Signal Word (GHS-US) WARNING

Hazard Statements (GHS-US)

H316 Causes mild skin irritation
H320 Causes eye irritation

**Precautionary Statements (GHS-US)** P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification (Scale 0-4)

Health Hazard 0 Flammability 0 Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0 Fire 0 Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

### Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

## Section 3: Composition/information on ingredients

Composition: Mixture of substances listed below with nonhazardous additions.

Section 3: Composition/information on ingredients				
Name	Product Identifier	%	GHS-US classification	
Glycerol	(CAS No.) 56-81-5 (EC No.) 200-289-5	25-50		

Full text of H-phrases: see section 16

### Section 4: First aid measures

### **Description of first aid measures**

**First Aid Measures General:** Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**First Aid Measures after Inhalation:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician

First Aid Measures after Skin Contact: Wash off with soap and plenty of water. Consult a physician

**First Aid Measures after Eye Contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. **First Aid Measures after Ingestion:** Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician

## Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: May be harmful if absorbed through skin. Causes skin irritation

Symptoms/Injuries after inhalation: May cause respiratory tract irritation

Symptoms/Injuries after eye contact: Causes eye irritation Symptoms/Injuries after ingestion: May be harmful if swallowed

Other Symptoms/Injuries:

#### Indication of any medical attention and special treatment needed

If medical advice is needed, have product container or label at hand.

## **Section 5: Firefighting Measures**

## **Extinguishing media**

Suitable extinguishing media: Dry Powder, CO<sub>2</sub>, Water Spray, or Alcohol Resistant Foam

Unsuitable extinguishing media:

### Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible
Hazardous Combustion Products: Sodium Oxides

Reactivity:

### **Advice for Firefighters**

Firefighting instructions: Prevent fire-fighting water from entering surface water or ground water.

Protection during firefighting: Wear self-contained breathing apparatus, if necessary

## **Section 6: Accidental release measures**

## Personal precautions, protective equipment and emergency procedures

**General Measures:** Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

#### **Environmental Precautions**

Do not let product enter drains.

## Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

### Methods and material for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

## **Section 7: Handling and Storage**

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

## Conditions for safe storage, including any incompatibilities

Storage conditions: Keep containers tightly closed in a dry, cool, and well-ventilated place. Recommended storage

temperature 2-8°C.

Incompatible products: n/a

Specific end use(s)

## Section 8: Exposure controls/ personal protection

#### **Components with Workplace Control Parameters**

Components	CAS-No.	Value	<b>Control Parameters</b>	Basis
Glycerol	56-81-5	TWA	10mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants
				1910.1000

Glycerol	56-81-5	TWA	10mg/m³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000

**Respiratory Protection** For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator

cartridges. Use respirators and components tested and approved under appropriate government standards such as

NIOSH (US) or CEN (EU).

**Hand Protection** Use gloves when handling this product. Inspect gloves prior to

> use for any visible damage. Use proper glove removal technique to prevent contact with skin. Dispose of gloves in accordance with applicable laws. Wash and dry hands after use.

**Eye Protection** Use a face shield and/or safety googles when handling this

product. Use eye ware that has been approved by NIOSH.

**Skin and Body Protection** Wear appropriate laboratory attire when handling this product

such as gloves, long pants, closed-toe shoes, and laboratory

coat.

Avoid contact with eyes, skin, and clothing. Wash hands **Hygiene Measures** 

thoroughly after using this product.









## Safety Data Sheet

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## **Section 9: Physical and Chemical Properties**

### Information on basic physical and chemical properties

Physical State Liquid

Color No data available Odor No data available **Odor Threshold** No data available No data available рΗ Relative evaporation rate No data available **Melting Point** No data available No data available **Freezing Point Boiling Point** No data available No data available **Flash Point Auto-ignition temperature** No data available **Decomposition Temperature** No data available Flammability (Solid, Gas) No data available **Vapor Pressure** No data available Relative vapor density at 20°C No data available **Relative Density** No data available No data available Density No data available Solubility No data available Log Pow Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available **Explosive properties** 

Other Information

## Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: n/a

Conditions to Avoid: n/a Incompatible Materials: n/a

Hazardous Decomposition Products: n/a

## **Section 11: Toxicological Information**

### **Information on Toxicological Effects**

Acute Toxicity:

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	No data available
Other Information on Acute Toxicity	No data available

## Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations

Skin Corrosion/Irritation: No data available Serious Eye Damage/Irritation: No data available Respiratory or Skin Sensation: No data available Germ Cell Mutagenicity: No data available

Carcinogenicity:

**IARC:** No component of this product that is 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 that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by ACGIH.

**NTP:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by NTP.

**OSHA:** No component of this product that is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by OSHA.

Reproductive Toxicity: No data available

Specific Target Organ Toxicity (Single Exposure) No data available Specific Target Organ Toxicity (Repeated Exposure) No data available

Aspiration hazard: No data available

**Potential Health Effects:** 

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion:** May be harmful if swallowed **Skin:** May be harmful if absorbed through skin.

**Eyes:** Causes eye irritation.

Signs/Symptoms of Exposure: Prolonged or repeated exposure may cause; headache, nausea, vomiting.

## **Section 12: Ecological Information**

Toxicity: no data available

Persistence and Degradability: no data available Bio accumulative Potential: no data available

Mobility in Soil: no data available

Other Adverse Effects: No data available

## **Section 13: Disposal Considerations**

**Product:** Disposal should be in accordance with applicable regional, national and local laws and regulations.

Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

**Contaminated Packaging:** Disposal must be made according to official regulations.

## **Section 14: Transport Information**

**DOT (US):** Not considered dangerous goods **IMDG:** Not considered dangerous goods **IATA:** Not considered dangerous goods

## **Section 15: Regulatory Information**

**OSHA Hazards:** Target organ effect

**SARA 302 Components:** No chemicals in this product are required to be reported according to SARA Title III, Section 302. **SARA 313 Components:** This product does not contain any chemicals with known CAS numbers that exceed the threshold (De

## Safety Data Sheet

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Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Components: Chronic Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	Glycerol	56-81-5
Pennsylvania	Glycerol	56-81-5
New Jersey	Glycerol	56-81-5

California Prop. 65 Components: This product does not contain any chemicals listed by the State of California's Proposition 65.

## **Section 16: Other Information**

#### **GHS Full Text Phrases**

n/a

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