



# HighPrep Plasmid DNA Kit

Material Safety Data Sheet

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

Revision date: 07/07/2016

Issue Date: 7/07/2016

Version 1.0

## Section 1: Product Information

### Product Identifier

**Product Name:** HighPrep Plasmid 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  
(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

- Sol 1
- Sol 2
- Neutralization Buffer
- MB Elution Buffer
- RNase A
- MAG-S1 Particles

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****Product Identifier**

Product Name: SOL 1

**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**

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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### 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:**

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

**First Aid Measures after Skin Contact:**

**First Aid Measures after Eye Contact:**

**First Aid Measures after Ingestion:**

#### 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:** May cause 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 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:**

#### Environmental Precautions

#### 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

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### 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:** No special storage conditions required

#### Specific end use(s)

### Section 8: Exposure controls/ personal protection

<b>Exposure Controls</b>	This product does not contain any substances with occupational exposure limit values.	
<b>Respiratory Protection</b>	No special protective equipment required	
<b>Hand Protection</b>	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.	
<b>Eye Protection</b>	Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.	
<b>Skin and Body Protection</b>	Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.	
<b>Hygiene Measures</b>	Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.	

### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>pH</b>	6.0-8.0
<b>Relative evaporation rate</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Vapor Pressure</b>	No data available

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<b>Relative vapor density at 20°C</b>	No data available
<b>Relative Density</b>	No data available
<b>Density</b>	No data available
<b>Solubility</b>	No data available
<b>Log Pow</b>	No data available
<b>Log Kow</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	No data available
<b>Other Information</b>	

### Section 10: Stability and reactivity

#### Reactivity

**Chemical Stability:** Stable under recommended storage conditions

**Possibility of Hazardous Reactions:**

**Conditions to Avoid:**

**Incompatible Materials:**

**Hazardous Decomposition Products:**

### 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:**

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**Ingestion:**

**Skin:**

**Eyes:**

**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

**Bioaccumulative 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	Water	7732-18-5
Pennsylvania	Water	7732-18-5
New Jersey	Water	7732-18-5

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

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### Section 16: Other Information

**GHS Full Text Phrases:** n/a

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**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****Product Identifier****Product Name:** SOL 2**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**

Irritant

**GHS-US Classification**

Skin Corrosion (Category 2)

Serious Eye Damage (Category 2)

**Label Elements****GHS – US labeling****Hazard Pictograms (GHS-US)****Signal Word (GHS-US)**

WARNING

**Hazard Statements (GHS-US)**

H290 Causes severe skin burns and eye damage.

H315 Skin Irritant

H319 Eye Irritant

**Precautionary Statements (GHS-US)**

P280 Wear protective gloves/protective clothing/eye protection/face protection

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

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

P310 Immediately call a POISON CENTER or doctor/physician.

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

Health Hazard 2

Flammability 0

Physical Hazards 0



# SOL 2

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### 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
Sodium Hydroxide	(CAS No.) 1310-73-2 (EC No.) 215-185-5 (Index No.) 011-002-00-6	0.5-2	Skin Corr. 1A; H 314

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. Take off contaminated clothing and shoes immediately. 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. Continue rinsing eyes during transport to hospital.

**First Aid Measures after Ingestion:** Do NOT induce vomiting. 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:** May be harmful if absorbed through skin. Causes skin burns

**Symptoms/Injuries after inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Symptoms/Injuries after eye contact:** Causes eye burns. Causes severe eye burns

**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

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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:**

#### Specific end use(s)

### Section 8: Exposure controls/ personal protection

#### Components with Workplace Control Parameters

Components	CAS-No.	Value	Control Parameters	Basis
Sodium Hydroxide	1310-73-2	CEIL	2mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
		C	2mg/m <sup>3</sup>	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	2mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		C	2mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
<b>Remarks</b>	Eye, Skin & Upper Respiratory Tract Irritation			
		C	2mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits

#### Exposure Controls

##### 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 goggles when handling this product. Use eye ware that has been approved by NIOSH.



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### 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.

## 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
pH	> 12
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
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:** No data available

**Conditions to Avoid:** Heating

**Incompatible Materials:** Acids, Organic materials, Chlorinated solvents, Aluminum, Phosphorus, Tin/tin oxides, Zinc

**Hazardous Decomposition Products:** Sodium oxides

## SOL 2

### Safety Data Sheet

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#### Section 11: Toxicological Information

##### Information on Toxicological Effects

Acute Toxicity:

Oral LD50	500 100% mg/kg (rat)
Inhalation LC50	No data available
Dermal LD50	1350 mg/kg
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:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed

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

**Eyes:** Causes eye burns. Causes severe eye burns.

**Signs/Symptoms of Exposure:**

#### Section 12: Ecological Information

**Toxicity:** no data available

**Persistence and Degradability:** no data available

**Bioaccumulative Potential:** no data available

**Mobility in Soil:** no data available

**Other Adverse Effects:** May be 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

## SOL 2

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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:** Corrosive

**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 Hydroxide	1310-73-2
	Water	7732-18-5
Pennsylvania	Sodium Hydroxide	1310-73-2
	Water	7732-18-5
New Jersey	Sodium Hydroxide	1310-73-2
	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

H314	Causes severe skin burns and eye damage
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*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.*

**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****Product Identifier**

**Product Name:** Neutralization 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.

**Section 2: Hazards Identification****Classification of the substance or mixture****OSHA Hazards**

Target organ effect, Corrosive

**Target Organs**

Teeth, Kidney

**GHS-US Classification**

Acute toxicity, Inhalation (Category 5)

Acute toxicity, Dermal (Category 5)

Skin corrosion, (Category 1A)

Serious eye damage (Category 1)

Skin sensitization (Category 1)

**Label Elements****GHS – US labeling****Hazard Pictograms (GHS-US)****Signal Word (GHS-US)**

DANGER

**Hazard Statements (GHS-US)**

H313 + H333 May be harmful in contact with skin or if inhaled

H314 Causes severe skin burns and eye damage

H317 May cause allergic skin reaction

**Precautionary Statements (GHS-US)**

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection

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

### HMIS Classification (Scale 0-4)

Health Hazard 3  
Flammability 0  
Physical Hazards 0

### NFPA Rating (Scale 0-4)

Health Hazard 3  
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
Acetic Acid	(CAS No.) 64-19-7 (EC No.) 200-580-7 (Index No.) 607-002-00-6	5-10	Flam. Liq. 3; Skin Corr. 1A; H226, H314

Full text of H-phrases: see section 16

## Section 4: First aid measures

### Description of first aid measures

**First Aid Measures General:** Exit to 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. Take off contaminated clothing and shoes immediately. 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. Continue rinsing eyes during transport to hospital.

**First Aid Measures after Ingestion:** Do NOT induce vomiting. 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:** Causes skin burns

**Symptoms/Injuries after inhalation:** May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

**Symptoms/Injuries after eye contact:** Causes eye burns.

**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.

# Neutralization Buffer

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### 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:** Carbon oxides

**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:** 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:**

#### Specific end use(s)

### Section 8: Exposure controls/ personal protection

#### Components with Workplace Control Parameters

Components	CAS-No.	Value	Control Parameters	Basis
Acetic Acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
Remarks		Eye & Upper Respiratory Tract irritation Pulmonary function		
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		Eye & Upper Respiratory Tract irritation Pulmonary function		
		TWA	10 ppm 25 mg/m <sup>3</sup>	USA. OSHA – TABLE Z-1 Limits for air contaminants – 1910.1000
		TWA	10 ppm 25 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) – Table Z-1 Limits for Air Contaminants



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The value in mg/m <sup>3</sup> is approximate				
		TWA	10 ppm 25 mg/m <sup>3</sup>	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m <sup>3</sup>	USA NIOSH Recommended Exposure Limits

### Exposure Controls

#### 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 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.

## 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
pH	5-7
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

# Neutralization Buffer

## Safety Data Sheet

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

Log Kow	No data available
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:** no data available.

**Conditions to Avoid:** Heating

**Incompatible Materials:** Oxidizing agents, Metals, Amines, Alcohols, Peroxides, permanganates, e.g. potassium permanganate, Soluble carbonates and phosphates, hydroxides.

**Hazardous Decomposition Products:** Carbon oxides.

### 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:** May be harmful if inhaled. Material is extremely, destructive to the tissue of the mucous membranes and upper respiratory tract.

**Ingestion:** May be harmful if swallowed

**Skin:** Causes skin burns

**Eyes:** Causes eye burns

**Signs/Symptoms of Exposure:** Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Inhalation of vapors may cause spasm, inflammation and edema of the bronchi; spasm, inflammation

# Neutralization Buffer

## Safety Data Sheet

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

and edema of the larynx. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

### Section 12: Ecological Information

**Toxicity:** no data available

**Persistence and Degradability:** no data available

**Bioaccumulative Potential:** no data available

**Mobility in Soil:** no data available

**Other Adverse Effects:** Maybe 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):

Proper Shipping Name	UN Number	Class	Packaging Group
Acetic Acid Solution	2790	8	III
Marine Pollutant	No		
Poison Inhalation Hazard	No		

#### IMDG:

Proper Shipping Name	UN Number	Class	Packaging Group	EMS-No.
Acetic Acid Solution	2790	8	III	F-A, S-B
Marine Pollutant	No			

#### IATA:

Proper Shipping Name	UN Number	Class	Packaging Group
Acetic Acid Solution	2790	8	III

### Section 15: Regulatory Information

**OSHA Hazards:** Target organ effect, Corrosive

**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

# Neutralization Buffer

## Safety Data Sheet

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

Right to Know Components	Components	CAS-No.
Massachusetts	Acetic Acid	64-19-7
Pennsylvania	Acetic Acid Water	64-19-7 7732-18-5
New Jersey	Acetic Acid Water	64-19-7 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

Flam. Liq.	Flammable Liquid
H226	Flammable Liquid and Vapor
H314	Causes severe skin burns and eye damage
Skin Corr	Skin Corrosion

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**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**
**Product Identifier**

**Product 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)**

# Rnase A

## 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
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.

# Rnase A

## 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	Control Parameters	Basis
Glycerol	56-81-5	TWA	10mg/m <sup>3</sup>	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 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.

# Rnase A

## 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	No data available
Odor	No data available
Odor Threshold	No data available
pH	No data available
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
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:

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



# Rnase A

## Safety Data Sheet

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

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**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

**Bioaccumulative 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

# Rnase A

## 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

**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:** Chronic Health Hazard

Right to Know Components	Components	CAS-No.
Massachusetts	Glycerol	56-81-5
Pennsylvania	Water	7732-18-5
	Glycerol	56-81-5
New Jersey	Water	7732-18-5
	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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# MB Elution Buffer

Material Safety Data Sheet

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

Revision date: 06/08/2015

Issue Date: 10/01/2012

Version 2.0

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

### Product Identifier

Product 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.

## Section 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)

# MB Elution Buffer

## 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, 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:** 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

# MB Elution Buffer

## Safety Data Sheet

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

### 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:** No special storage conditions required

**Incompatible products:** n/a

#### Specific end use(s)

### Section 8: Exposure controls/ personal protection

<b>Exposure Controls</b>	This product does not contain any substances with occupational exposure limit values.	
<b>Respiratory Protection</b>	No special protective equipment required	
<b>Hand Protection</b>	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.	
<b>Eye Protection</b>	Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.	
<b>Skin and Body Protection</b>	Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.	
<b>Hygiene Measures</b>	Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.	

### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>pH</b>	8.0-9.0
<b>Relative evaporation rate</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available

# MB Elution Buffer

## Safety Data Sheet

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

<b>Vapor Pressure</b>	No data available
<b>Relative vapor density at 20°C</b>	No data available
<b>Relative Density</b>	No data available
<b>Density</b>	No data available
<b>Solubility</b>	No data available
<b>Log Pow</b>	No data available
<b>Log Kow</b>	No data available
<b>Viscosity, kinematic</b>	No data available
<b>Viscosity, dynamic</b>	No data available
<b>Explosive properties</b>	No data available
<b>Other Information</b>	

### 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:**

# MB Elution Buffer

## Safety Data Sheet

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

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**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  
**Bioaccumulative 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

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### Section 16: Other Information

**GHS Full Text Phrases:** n/a

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**Section 1: Identification of the Substance/Mixture and of the Company/Undertaking****Product Identifier**

Product Name: MAG-S1

**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**

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 0

Flammability 0

Physical Hazards 0

**NFPA Rating (Scale 0-4)**

Health Hazard 0

Fire 0

Reactivity Hazard 0

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

# MAG-S1

## 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:**

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

**First Aid Measures after Skin Contact:** n/a

**First Aid Measures after Eye Contact:** n/a

**First Aid Measures after Ingestion:** n/a

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

**Symptoms/Injuries after skin contact:**

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

**Symptoms/Injuries after eye contact:**

**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:**

#### Environmental Precautions

#### 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

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### 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:** No special storage conditions required

#### Specific end use(s)

### Section 8: Exposure controls/ personal protection

<b>Exposure Controls</b>	This product does not contain any substances with occupational exposure limit values.
<b>Respiratory Protection</b>	No special protective equipment required.
<b>Hand Protection</b>	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.
<b>Eye Protection</b>	Use a face shield and/or safety goggles when handling this product. Use eye ware that has been approved by NIOSH.
<b>Skin and Body Protection</b>	Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.
<b>Hygiene Measures</b>	Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.



### Section 9: Physical and Chemical Properties

#### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid
<b>Color</b>	Colorless
<b>Odor</b>	No data available
<b>Odor Threshold</b>	No data available
<b>pH</b>	6.0-8.0
<b>Relative evaporation rate</b>	No data available
<b>Melting Point</b>	No data available
<b>Freezing Point</b>	No data available
<b>Boiling Point</b>	No data available
<b>Flash Point</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition Temperature</b>	No data available
<b>Flammability (Solid, Gas)</b>	No data available
<b>Vapor Pressure</b>	No data available

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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
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:

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

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**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

**Bioaccumulative 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	Water	7732-18-5
Pennsylvania	Water	7732-18-5
New Jersey	Water	7732-18-5

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

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### Section 16: Other Information

#### GHS Full Text Phrases

n/a

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