

Section 1: Product Information**Product Identifier**

Product Name: cfKapture 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

- CFL Buffer
- CFW1 Buffer
- CFW2 Buffer
- Elution Buffer
- Pro K Solution
- MAG-CFB Particles

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

Product Name: CFL 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, 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/ vapours/ 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

CFL Buffer

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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
CFL Buffer	(CAS No.) 50-01-1 (EC No.) 200-002-3 (Index No.) 607-148-00-0		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:

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, CO₂), Nitrogen oxides (NO_x), Hydrogen Chloride gas.

Reactivity:

Advice for Firefighters

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

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: 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 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.

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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
Appearance	clear
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: No data available

Conditions to Avoid: No data to avoid

Incompatible Materials: Strong oxidizing agents, Strong acids, Organic materials

Hazardous Decomposition Products: Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas.

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

Oral LD50	No data available
Inhalation LC50	No data available
Dermal LD50	2000mg/kg (rabbit)
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: 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.

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

Eye contact: Causes eye irritation

Ingestion: Toxic if swallowed.

Skin contact: May be harmful if absorbed through skin. Causes skin 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

Bioaccumulative Potential: No data available

Mobility in Soil No data available

Other Adverse Effects: Harmful to aquatic life

Log Pow: <= -1.7 20 °C

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

CFL Buffer

Safety Data Sheet

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

Section 15: Regulatory Information

OSHA Hazards: Toxic by inhalation, Harmful by ingestion

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

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

Product Name: CFW1 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, 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

CFW1 Buffer

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	50-100	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, CO₂), Nitrogen oxides (NO_x), 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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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 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.

CFW1 Buffer

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
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: 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:

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

CFW1 Buffer

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

Bioaccumulative 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.

CFW1 Buffer

Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and 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, 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 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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Section 1: Identification of the Substance/Mixture and of the Company/Undertaking**Product Identifier**

Product Name: CFW2 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, 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

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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	10-30	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, CO₂), Nitrogen oxides (NO_x), 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

CFW2 Buffer

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 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.

CFW2 Buffer

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
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: 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:

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

CFW2 Buffer

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

Bioaccumulative 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.

CFW2 Buffer

Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and 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, 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 Massachusetts Right to Know Act.	
Pennsylvania	Guanidine Hydrochloride Water	50-01-1 7732-18-5
New Jersey	Guanidine Hydrochloride Water	50-01-1 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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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: 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)

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, 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

Elution Buffer

Safety Data Sheet

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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

Incompatible products: n/a

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 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 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	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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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

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:

Elution Buffer

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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
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.

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

Product 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)**

DANGER

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

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:

Pro K Solution

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 ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants -1910.1000
		TWA	5 mg/m ³	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
		TWA	10 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)

Pro K Solution

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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 goggles 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.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State	Liquid
Color	Clear/Slight Yellow
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	

Pro K Solution

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	
Dermal LD50	No data available	>10,000 mg/kg (Rabbit)
Other information on Acute Toxicity	No data available	

Skin Corrosion/Irritation: No data available

Mild skin irritation 24 hrs (rabbit)

Serious Eye Damage/Irritation: No data available

Mild eye irritation 24 hrs (rabbit)

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

Ingestion: May be harmful if swallowed

Skin: May be harmful if absorbed through skin

Eyes: Causes eye irritation

Signs/symptoms of Exposure:

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)
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Persistence and Degradability: No data available

Pro K Solution

Safety Data Sheet

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

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: 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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MAG-CFB Particles

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: 02/01/2015

Version 2.0

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

Product Identifier

Product Name: MAG-CFB 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.

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)

MAG-CFB Particles

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 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

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

Use inert absorbent material to soak up spill.

Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

MAG-CFB Particles

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

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 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	Brown
Odor	No data available
Odor Threshold	No data available
pH	n/a
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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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

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: 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	7732-18-5
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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