

HighPrep™ Total RNA Plus Kit

Material Safety Data Sheet

Section 1: Product Information

Product Identifier

Product Name: HighPrep™ Total RNA Plus 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

- RLB Buffer
- DCE Buffer
- MRW1 Buffer
- RWB2 Buffer
- Pro K Solution
- DNase I
- DNase I Digestion Buffer
- RNA Elution Buffer
- MAG-D4 Particles
- Solution A



Material Safety Data Sheet

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

Product Identifier

Product Name: RLB Buffer

Intended Use for the Product:

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

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

Emergency telephone number

Emergency number:

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

Sect on 2: Hazards Identification

Classification of the substance or mixture

OSHA Hazards

Toxic by inhalation, Harmful by ingestion

GHS-US Classification

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

Label Elements

GHS – US labeling Hazard Pictograms (GHS-US)



Signal Word (GHS-US) DANGER

Hazard Statements (GHS-US) H302 Harmful of swallowed

H331 Toxic if inhaled

H402 Harmful to aquatic life

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

P311 Call a Poison Control Center or physician

HMIS Classification (Scale 0-4)

Health Hazard 2 Flammability 0

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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 Thiocyanate	(CAS No.) 593-84-0	50-80	Acute Tox. 4; Skin Corr. 1C; Aquatic Chronic 3;
	(EC No.) 209-812-1 (Index		H302 + H312 + H332, H314, H412, EUH032
	No.) 615-030-00-5		

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: 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, 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), Sulfur Oxides (SOx), Nitrogen oxides (NOx).

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

Safety Data Sheet

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

Sect on 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental Precautions

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

Methods and material for containment and cleaning up

Use inert absorbent material to soak up spill. Dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Do not flush with water.

Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

Sect on 7: Handling and Storage

Precautions for safe handling

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

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)

Sect on 8: Expos re 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 googles when handling this product. Use eye ware that has been approved by NIOSH.
Skin and Body Protection	Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.
Hygiene Measures	Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.

Safety Data Sheet

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

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical StateLiquidColorColorlessOdorOdorless

Odor Threshold No data available

pH 5-6.6

Relative evaporation rate No data available **Melting Point** 117 °C (243 °F) **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 No data available Density Solubility No data available Log Pow No data available Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available **Explosive properties**

Other Information

Section 10: Stability and reactivity

Reactivity: Not reactive under normal conditions of use

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, cyanides

Hazardous Decomposition Products: Carbon oxides (COx), Sulfur Oxides (SOx), Nitrogen oxides (NOx), hydrogen cyanide,

ammonia

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

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

Safety Data Sheet

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

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

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

skin and mucous membranes.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

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

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

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

Reproductive Toxicity: No data available

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

Aspiration hazard: No data available

Potential Health Effects:

Inhalation: Toxic if inhaled. May cause respiratory irritation.

Ingestion: Harmful if swallowed

Skin: Harmful if absorbed through skin. May cause skin irritation.

Eyes: May cause eye irritation.

Signs/Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: Harmful to aquatic life

Other Information

Section 13: Disposal Considerations

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

S29 - Do not empty into drains

S57 - Use appropriate container to avoid environmental contamination

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

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

Section 14: Transport Information

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

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	Water	7732-18-5	
Pennsylvania	Guanidine Thiocyanate	593-84-0	
	Water	7732-18-5	
New Jersey	Guanidine Thiocyanate	593-84-0	
	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+H312+H332	Harmful if swallowed, in contact with skin, or inhaled
H315	Causes skin irritation
H319	Causes serious eye irritation
Skin Irrit.	Skin Irritation

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Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 08/01/2019 Issue date: 08/02/2019 Version 1.0

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

Product Identifier

Product Name: DCE 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)



Signal Word (GHS-US) WARNING

Hazard Statements (GHS-US) n/a

Precautionary Statements (GHS-US) n/a

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 0

Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0

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
n/a	n/a	n/a	n/a

Full text of H-phrases: see section 16

Section 4: First aid measures

Description of first aid measures

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

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

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

Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: n/a Symptoms/Injuries after inhalation: n/a

Symptoms/Injuries after eye contact: Causes eye irritation

Symptoms/Injuries after ingestion: n/a

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: n/a

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.

Safety Data Sheet

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

Sect on 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental Precautions

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

Methods and material for containment and cleaning up

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

Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

Sect on 7: Handling and Storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

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

Specific end use(s)

Sect on 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 googles when handling this product. Use eye ware that has been approved by NIOSH.
Skin and Body Protection	Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.
Hygiene Measures	Avoid contact with eyes, skin, and clothing. Wash hands

thoroughly after using this product.

Safety Data Sheet

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

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical StateLiquidColorColorlessOdorOdorless

Odor Threshold No data available

pH 7-8

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 No data available Density Solubility No data available **Log Pow** No data available Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available No data available **Explosive properties**

Other Information

Section 10: Stability and reactivity

Reactivity: Not reactive under normal conditions of use

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: no data available **Incompatible Materials:** no data available

Hazardous Decomposition Products: no data available

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

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

Safety Data Sheet

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

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

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

skin and mucous membranes.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

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

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

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

Reproductive Toxicity: No data available

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

Aspiration hazard: No data available

Potential Health Effects:

Inhalation: no data available **Ingestion:** no data available

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

Eyes: no data available.

Signs/Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: 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.



Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 08/01/2019 Issue date: 08/02/2019 Version 1.0

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

Product Identifier

Product Name: MRW1 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

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	12-58	Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; H302,
	(EC No.) 200-002-3		H315, H319
	(Index No.) 607-148-00-0		

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: 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

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: No special storage conditions required.

Incompatible products: Strong oxidizing agents

Specific end use(s)

Section 8: Exposure controls/ personal protection

From a service Countries	This was done to be a set of the control of the con
Exposure Controls	This product does not contain any substances with occupational exposure limit values.

Respiratory Protection No special protective equipment required.

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

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

with applicable laws. Wash and dry hands after use.

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

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

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

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

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

thoroughly after using this product.



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 StateLiquidColorColorlessOdorOdorless

Odor Threshold No data available

pH 5-8

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

Other Information

Section 10: Stability and reactivity

Reactivity: Not reactive under normal conditions of use

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available **Incompatible Materials:** No data available

Hazardous Decomposition Products: No data available

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

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

Safety Data Sheet

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: No data available

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

Eyes: Causes eye irritation.

Signs/Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: 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 regulation

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	Water	7732-18-5	
Pennsylvania	Guanidine Hydrochloride	50-01-1	
	Water	7732-18-5	
New Jersey	Guanidine Hydrochloride	50-01-1	
	Water	7732-18-5	

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

Section 16: Other Information

GHS Full Text Phrases

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

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Material Safety Data Sheet

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

Product Identifier

Product Name: RWB2 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 n/a

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) No data available

Precautionary Statements (GHS-US) No data available

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 0

Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0

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
n/a	n/a	n/a	n/a

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: No data available 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: 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.

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.

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: No special storage conditions required.

Incompatible products: Strong oxidizing agents

Specific end use(s)

Section 8: Exposure controls/ personal protection

From a service Countries	This was done to be a set of the control of the con
Exposure Controls	This product does not contain any substances with occupational exposure limit values.

Respiratory Protection No special protective equipment required.

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

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

with applicable laws. Wash and dry hands after use.

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

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

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

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

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

thoroughly after using this product.



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 StateLiquidColorColorlessOdorOdorless

Odor Threshold No data available

pH 5-8

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

Other Information

Section 10: Stability and reactivity

Reactivity: Not reactive under normal conditions of use

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available **Incompatible Materials:** No data available

Hazardous Decomposition Products: No data available

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

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

Safety Data Sheet

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

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

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

skin and mucous membranes.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

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

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

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

Reproductive Toxicity: No data available

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

Aspiration hazard: No data available

Potential Health Effects:

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

Ingestion: No data available

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

Eyes: Causes eye irritation.

Signs/Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: 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.

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	Water	7732-18-5
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: n/a

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Material Safety Data Sheet

According to Federal Register/Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 08/01/2019 Issue date: 08/02/2019 Version 1.0

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)

Hazard Statements (GHS-US)

H315 Causes skin irritation

H319 Causes serious eye irritation

H317 May cause an allergic skin reaction

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 P342+P311 If experiencing respiratory symptoms: Call a POISON

CENTER or doctor/ physician.

HMIS Classification (Scale 0-4)

Health Hazard 2
Flammability 1
Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 2 Fire 1 Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

Section 3: Composition/information on ingredients

Composition: Mixture of substances listed below with nonhazardous additions.

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

Full text of H-phrases: see section 16

Section 4: First aid measures

Description of first aid measures

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

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

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

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

Most Important Symptoms and Effects, both acute and delayed

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

Symptoms/Injuries after inhalation: May cause respiratory tract irritation

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

Indication of any medical attention and special treatment needed

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

Section 5: Firefighting Measures

Extinguishing media

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

Unsuitable extinguishing media:

Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible.

Hazardous Combustion Products: n/a

Reactivity:

Safety Data Sheet

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

Advice for Firefighters

Firefighting instructions:

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

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

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

Environmental Precautions

Do not let product enter drains

Methods and material for containment and cleaning up

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

Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

Section 7: Handling and Storage

Precautions for safe handling

Avoid contact with skin and eyes

Conditions for safe storage, including any incompatibilities

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

Incompatible products: n/a

Specific end use(s)

Section 8: Exposure controls/personal protection

Exposure Controls

Components	CAS-No.	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m 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)

Safety Data Sheet

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

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

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

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

CEN (EU).

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

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

with applicable laws. Wash and dry hands after use.

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

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

Skin and Body ProtectionComplete 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

Clear/Slight Yellow Color Odor No data available **Odor Threshold** No data available Ηα No data available No data available Relative evaporation rate No data available **Melting Point Freezing Point** No data available No data available **Boiling Point 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 No data available **Relative Density** Density No data available Solubility No data available Log Pow No data available Log Kow No data available No data available Viscosity, kinematic Viscosity, dynamic No data available **Explosive properties** No data available

Other Information

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

Mild skin irritation 24 hrs. (rabbit) Mild eye irritation 24 hrs. (rabbit)

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)

Persistence and Degradability: No data available

Safety Data Sheet

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

Bio accumulative Potential: No data available

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

Section 13: Disposal Considerations

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

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

and protection of employees.

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

Section 14: Transport Information

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

Section 15: Regulatory Information

OSHA Hazards: Target Organ Effect, Respiratory sensitizer, Irritant

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

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

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

SARA 311/312 Components: Acute Health Hazard

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

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

Section 16: Other Information

GHS Full Text Phrases: n/a

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Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 08/01/2019 Issue date: 08/02/2019 Version 1.0

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

Product Identifier

Product Name: DNase I

Intended Use for the Product:

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

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

Emergency telephone number

Emergency number:

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

Sect on 2: Hazards Identification

Classification of the substance or mixture

OSHA Hazards

No known OSHA Hazards

GHS-US Classification

Not a dangerous substance according to GHS

Label Elements

GHS - US labeling

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) H316 Causes mild skin irritation

H320 Causes eye irritation

Precautionary Statements (GHS-US) P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes.

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

Health Hazard 0

HMIS Classification (Scale 0-4) Flammability 0

Physical Hazards 0

Health Hazard 0

NFPA Rating (Scale 0-4)

Fire 0

Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

Safety Data Sheet

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

Section 3: Composition/information on ingredients

Composition: Mixture of substances listed below with nonhazardous additions.

Name	Product Identifier	%	GHS-US classification
Deoxyribonuclease I	9003-98-9	2-100mg/ml	n/a
Glycerol	56-81-5	20-40%	n/a

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

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:** Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open.

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

Most Important Symptoms and Effects, both acute and delayed

Symptoms/Injuries after skin contact: n/a

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

Symptoms/Injuries after eye contact: n/a

Symptoms/Injuries after ingestion: May be harmful if swallowed

Other Symptoms/Injuries: n/a.

Indication of any medical attention and special treatment needed

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

Section 5: Firefighting Measures

Extinguishing media

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

Unsuitable extinguishing media:

Special Hazards arising from the substance or

mixture Flammability: Not flammable or combustible Hazardous Combustion Products:

Reactivity: No data available

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

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Use inert absorbent material to soak up spill.

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

Specific end use(s)

Section 8: Exposure controls/ personal protection

Exposure Controls

Components	CAS-No	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10mg/m3	USA OSHA TABLE Z-1Linits for Air
				Contaminants- 1910.1000

Respiratory Protection In case of insufficient ventilation wear suitable respiratory

equipment. Use respirators that have been approved by NIOSH.

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

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

with applicable laws. Wash and dry hands after use.

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

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

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

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

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

thoroughly after using this product.





Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Safety Data Sheet

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

Physical StateLiquidColorColorlessOdorOdorless

Odor Threshold No data available

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

Other Information

Section 10: Stability and reactivity

Reactivity: Not reactive under normal conditions

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available Incompatible Materials: No data available

Hazardous Decomposition Products: No data available

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: Components of the product may be absorbed into the body through the skin. Irritating to skin and mucous

membranes.

Safety Data Sheet

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

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

Signs/Symptoms of Exposure:

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: no data available

Other Information

Section 13: Disposal Considerations

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

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

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

Section 14: Transport Information

DOT (US): Not considered dangerous

goods

IMDG: Not considered dangerous goods **IATA:** Not considered dangerous goods

Section 15: Regulatory Information

OSHA Hazards: n/a

Safety Data Sheet

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

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.

Section 16: Other Information

GHS Full Text Phrases

N/A

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Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 08/01/2019 Issue date: 08/02/2019 Version 1.0

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

Product Identifier

Product Name: DNase I Digestion Buffer

Intended Use for the Product:

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

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

Emergency telephone number

Emergency number:

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

Sect on 2: Hazards Identification

Classification of the substance or mixture

OSHA Hazards

No known OSHA Hazards

GHS-US Classification

Not a dangerous substance according to GHS

Label Elements

GHS – US labeling

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) n/a

Precautionary Statements (GHS-US) n/a

HMIS Classification (Scale 0-4)

Health Hazard 0 Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0 Fire 0

Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

Safety Data Sheet

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

Section 3: Composition/information on ingredients

Composition: Mixture of substances listed below with nonhazardous additions.

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

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: Remove to an area with fresh air. Give artificial respiration in not breathing and call medical emergency services. Oxygen may be required if respiration is difficult.

First Aid Measures after Skin Contact: Immediately wash skin with soap and copious amounts of water.

First Aid Measures after Eye Contact: Immediately flush eyes with large amounts of water for at least 20 minutes.

Adequate flushing is achieved by separating eyelids with clean fingers then consult a physician

First Aid Measures after Ingestion: Wash out mouth with water only if conscious

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, CO2, water spray, or regular foam.

Unsuitable extinguishing media:

Special Hazards arising from the substance or mixture

Flammability: no data available

Hazardous Combustion Products: no data available

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 and protective clothing to prevent contact with eyes and skin.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

Precautionary Measures: Wear self-contained breathing apparatus, protective eyewear/goggles, rubber boots and thick rubber gloves.

Environmental Precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Safety Data Sheet

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

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

Sect on 7: Handling and Storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage conditions: No special storage conditions required.

Incompatible products: no data available

Specific end use(s)

Sect on 8: Expos re controls/ personal protection

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

Respiratory ProtectionNo special protective equipment required.

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

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

with applicable laws. Wash and dry hands after use.

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

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

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

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

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

thoroughly after using this product.



Sect on 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical StateLiquidColorColorlessOdorOdorless

Odor Threshold No data available

Safety Data Sheet

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

pH 5-8

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

Section 10: Stability and reactivity

Reactivity Not reactive under normal conditions of use

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: No data available

Conditions to Avoid: No data available Incompatible Materials: No data available

Hazardous Decomposition Products: No data available

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: 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: No data available
Reproductive Toxicity: No data available

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Safety Data Sheet

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

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 by inhalation **Ingestion:** May be harmful if swallowed

Skin: May cause skin irritation. **Eyes:** May cause irritation

Signs/Symptoms of Exposure: To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: no data available

Other Information

Section 13: Disposal Considerations

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

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 in the State of California's Proposition 65.

Safety Data Sheet

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

Section 16: Other Information

GHS Full Text Phrases

n/a

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Material Safety Data Sheet

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

Product Identifier

Product Name: RNA Elution Buffer

Intended Use for the Product:

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

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

Emergency telephone number

Emergency number:

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

Sect on 2: Hazards Identification

Classification of the substance or mixture

OSHA Hazards

No known OSHA Hazards

GHS-US Classification

Not a dangerous substance according to GHS

Label Elements

GHS - US labeling

Hazard Pictograms (GHS-US)

n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) n/a

Precautionary Statements (GHS-US) n/a

HMIS Classification (Scale 0-4)

Health Hazard 0 Flammability 0

Physical Hazards 0

NFPA Rating (Scale 0-4)

Health Hazard 0 Fire 0 Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

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		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:

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, 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:

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

Safety Data Sheet

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

Sect on 7: Handling and Storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage conditions: No special storage conditions required

Incompatible products:

Specific end use(s)

Sect on 8: Expos re controls/ personal protection

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

Respiratory ProtectionNo special protective equipment required.

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

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

with applicable laws. Wash and dry hands after use.

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

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

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

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

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

thoroughly after using this product.







Sect on 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Liquid Color Colorless

Odor No data available
Odor Threshold No data available

pH 7-8

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

Safety Data Sheet

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

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

Other Information

Section 10: Stability and reactivity

Reactivity

Chemical Stability: Stable under recommended storage conditions

Possibility of Hazardous Reactions: n/a

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

Hazardous Decomposition Products: n/a

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

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

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

Carcinogenicity:

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

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

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

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

Reproductive Toxicity: No data available

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

Aspiration hazard: No data available

Potential Health Effects:

Safety Data Sheet

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

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

Signs/Symptoms of Exposure:

Section 12: Ecological Information

Toxicity: no data available

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

Mobility in Soil: no data available

Other Adverse Effects: No data available

Other Information

Section 13: Disposal Considerations

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

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

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

Section 14: Transport Information

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

Section 15: Regulatory Information

OSHA Hazards: n/a

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

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

SARA 311/312 Components: Acute Health Hazard

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.

Safety Data Sheet

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

Section 16: Other Information

GHS Full Text Phrases n/a

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Material Safety Data Sheet

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

Product Identifier

Product Name: MAG-D4 Particles

Intended Use for the Product:

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

MagBio Genomics 944 Clopper Road Gaithersburg, MD 20878

(301) 302-0144

Emergency telephone number

Emergency number:

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

Sect on 2: Hazards Identification

Classification of the substance or mixture

OSHA Hazards

No known OSHA hazards

GHS-US Classification

Not a dangerous substance according to GHS

Label Elements

GHS - US labeling

Hazard Pictograms (GHS-US) n/a

Signal Word (GHS-US) n/a

Hazard Statements (GHS-US) n/a

Precautionary Statements (GHS-US) n/a

HMIS Classification (Scale 0-4) Health Hazard 0

Flammability 0 Physical Hazards 0

NFPA Rating (Scale 0-4) Health Hazard 0

Fire 0

Reactivity Hazard 0

Unknown acute toxicity (GHS-US)

Safety Data Sheet

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

Section 3: Composition/information on ingredients

Composition: Mixture of substances listed below with nonhazardous additions.

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

Full text of H-phrases: see section 16

Section 4: First aid measures

Description of first aid measures

First Aid Measures General:

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: 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: 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 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

Safety Data Sheet

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

Sect on 7: Handling and Storage

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Storage conditions: No special storage conditions required

Incompatible products: n/a

Specific end use(s)

Sect on 8: Expos re controls/ personal protection

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

Respiratory Protection No special protective equipment required

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

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

with applicable laws. Wash and dry hands after use.

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

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

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

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

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

thoroughly after using this product.







Sect on 9: Physical and Chemical Properties

Information on basic physical and chemical properties

Physical State Liquid Color Colorless

OdorNo data availableOdor ThresholdNo data available

pH 6.0-8.0

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

Safety Data Sheet

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

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

Other Information

Section 10: Stability and reactivity

Reactivity

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 Ingestion: n/a

Safety Data Sheet

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

Skin: n/a Eyes: n/a

Signs/symptoms of Exposure:

Section 12: Ecological Information

Toxicity: No data available

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

Mobility in Soil: No data available Other Adverse Effects: No data available Other Information: 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 in the State of California's Proposition 65.

Safety Data Sheet

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

Section 16: Other Information

GHS Full Text Phrases: n/a

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Material Safety Data Sheet

According to Federal Register/ Vol. 77, No. 58/ Monday, March 26, 2012/ Rules and Regulations Revision date: 08/01/2019 Issue Date: 08/02/2019 Version 1.0

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

Product Identifier

Product Name: Solution 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

This material is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

GHS-US Classification

Not a dangerous substance according to GHS

Label Elements

GHS – US labeling





Hazard Pictograms (GHS-US)

Signal Word (GHS-US) DANGER

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

Physical Hazards

NFPA Rating (Scale 0-4)

Health Hazard 3
Fire 1

Reactivity Hazard 0

Acute toxicity (GHS-US)

Oral 4 Eye Damage 1

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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
Polyethylene glycol octylphenyl ether	9036-19-5	>= 97.0 %	n/a
Poly(ethylene oxide)	25322-68-3	<= 3.0 %	n/a
Magnesium chloride hexahydrate	7791-18-6	100%	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: Move person to fresh air; if effects occur, consult a physician.

First Aid Measures after Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

First Aid Measures after Eye Contact: Wash immediately and continuously with flowing water for at least 30 minutes.

Remove contact lenses after the first 5 minutes and continue washing. Obtain prompt medical consultation, preferably from an ophthalmologist. Suitable emergency eye wash facility should be immediately available.

First Aid Measures after Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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.

Notes to Physician: Chemical eye burns may require extended irrigation. Obtain prompt consultation, preferably from an ophthalmologist. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5: Firefighting Measures

Extinguishing media

Suitable extinguishing media: Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function but will be less effective.

Unsuitable extinguishing media: Do not use direct water stream. May spread fire.

Special Hazards arising from the substance or mixture

Flammability: Not flammable or combustible

Hazardous Combustion Products: During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

Reactivity:

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Advice for Firefighters

Firefighting instructions: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage.

Protection during firefighting: Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

General Measures: Evacuate area. Only trained and properly protected personnel must be involved in clean-up operations. Keep upwind of spill. Ventilate area of leak or spill. Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

Environmental Precautions

Prevent from entering into soil, ditches, drains, sewers, waterways and/or groundwater.

Methods and material for containment and cleaning up

Contain spilled material if possible. Absorb with materials such as: Sand. Dirt. Collect in suitable and properly labeled containers. Do not use water for cleanup.

Reference to other sections

See heading 8, Exposure Controls and Personnel Protection

Section 7: Handling and Storage

Precautions for safe handling

Do not get in eyes. Avoid contact with skin and clothing. Do not swallow. Wash thoroughly after handling. Avoid breathing vapor. Use with adequate ventilation. Keep container closed. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

Conditions for safe storage, including any incompatibilities

Storage conditions: Store capped at room temperature. Protect from heat and incompatibles.

Specific end use(s)

Section 8: Exposure controls/ personal protection

Exposure Controls

Component	Regulation	Type of listing	Value/Notation
Poly(ethylene oxide)	US WEEL	TWA aerosol	10 mg/m3
Magnesium chloride hexahydrate	none listed	none listed	none listed
Sucrose	USA. ACGIH Threshold Limit Values (TLV)	TWA aerosol	10 mg/m3
Sucrose	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants	TWA aerosol	15 mg/m3

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Respiratory Protection

Sucrose	USA. Occupational Exposure Limits (OSHA) - Table Z- 1 Limits for Air	TWA aerosol	5 mg/m3
	Contaminants		
Sucrose	USA. NIOSH	TWA aerosol	5 mg/m3
	Recommended		
	Exposure Limits		

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Organic vapor cartridge with a particulate pre-filter.

Hand Protection

Use gloves chemically resistant to this material when prolonged or frequently repeated contact could occur. Examples of referred glove barrier materials include: Butyl rubber. Ethyl vinyl alcohol laminate ("EVAL"). Examples of acceptable glove barrier materials include: Natural rubber ("latex"). Neoprene.

Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

In Silver

Eye Protection

Use a face shield and/or safety googles when handling this product. Use eye ware that has been approved by NIOSH.



Skin and Body Protection

Wear appropriate laboratory attire when handling this product such as gloves, long pants, closed-toe shoes, and laboratory coat.



Hygiene Measures

Avoid contact with eyes, skin, and clothing. Wash hands thoroughly after using this product.

Section 9: Physical and Chemical Properties

Information on basic physical and chemical properties

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Physical StateLiquidColorColorlessOdorMild

Odor Threshold No data available

pH 6.0-8.0

Relative evaporation rateNo data available

Melting Point 117°C

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

Other Information

Section 10: Stability and reactivity

Reactivity:

Chemical Stability: Stable under recommended storage conditions **Possibility of Hazardous Reactions:** Polymerization will not occur.

Conditions to Avoid: Do not distill to dryness. Product can oxidize at elevated temperatures. Generation of gas during decomposition can cause pressure in closed systems.

Incompatible Materials: Strong acids. Strong oxidizers. Attacks metals in the presence of moisture.

Hazardous Decomposition Products: Decomposition products depend upon temperature, air supply, and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes, Ketones, Organic acids, Chlorine, and Hydrogen Chloride.

Section 11: Toxicological Information

Information on Toxicological Effects

Acute Toxicity:

Acute Toxicity.	
Oral LD50	Rat: 1,900 - 5,000 mg/kg
Inhalation LC50	No data available
Dermal LD50	Rabbit: > 3,000 mg/kg
Other Information on Acute Toxicity	No data available

Skin Corrosion/Irritation: Brief contact is essentially nonirritating to skin. Prolonged contact may cause moderate skin irritation with local redness. Repeated contact may cause moderate skin irritation with local redness.

Serious Eye Damage/Irritation: May cause severe irritation with corneal injury which may result in permanent impairment of vision, even blindness. Chemical burns may occur. Mist may cause eye irritation.

Respiratory or Skin Sensation: Did not cause allergic skin reactions when tested in humans.

Germ Cell Mutagenicity: No data available

Carcinogenicity:

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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: Oral exposure in laboratory animals: Has been toxic to the fetus in laboratory animals at doses toxic to the mother. These effects were only observed at exaggerated doses. Did not cause birth defects in laboratory animals. Dermal exposure of laboratory animals has caused an increased incidence of a naturally occurring developmental variation (extra lumbar rib) in fetuses at dose levels nontoxic to the mother.

Specific Target Organ Toxicity (Single Exposure) Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Specific Target Organ Toxicity (Repeated Exposure) No data available

Aspiration hazard: Based on physical properties, not likely to be an aspiration hazard.

Potential Health Effects:

Inhalation: At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous. Mist may cause irritation of upper respiratory tract (nose and throat).

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:

Acute toxicity to fish

Material is moderately toxic to aquatic organisms on an acute basis (LC50/EC50 between 1 and 10 mg/L in the most sensitive species tested).

For this family of materials:

LC50, Pimephales promelas (fathead minnow), static test, 96 Hour, 4 - 8.9 mg/l

Acute toxicity to aquatic invertebrates

For this family of materials:

EC50, Daphnia magna (Water flea), static test, 48 Hour, 18 - 26 mg/l

Toxicity to bacteria

For this family of materials:

IC50, Bacteria, static test, 16 Hour, 5,000 mg/l

Persistence and Degradability: For this family of materials: Material is readily biodegradable. Passes

OECD test(s) for ready biodegradability. 10-day Window: Not applicable

Bio accumulative Potential: Partition coefficient: n-octanol/water(log Pow): 2.7 Estimated.

Bioconcentration factor (BCF): 15 Estimated.

Mobility in Soil: no data available

Other Adverse Effects: no data available

Other Information

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Section 13: Disposal Considerations

Product: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Incinerator or other thermal destruction device. Wastewater treatment system.

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

Section 14: Transport Information

DOT (US): Not regulated for transport. **IMDG:** Not considered dangerous goods **IATA:** Not regulated for transport.

Section 15: Regulatory Information

OSHA Hazards: This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

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

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

SARA 311/312 Components: Acute Health Hazard

California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986)

This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute.

Right to Know Components	Components	CAS-No.
Massachusetts	Water	7732-18-5
	Sucrose	57-50-1
Pennsylvania	Water	7732-18-5
	Sucrose	57-50-1
New Jersey	Water	7732-18-5
	Sucrose	57-50-1

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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