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|----------------------------|----------------------------------|---------------------|
| Product Information | Revision Date: 06-18-2021 | Version: 1.0 |
|----------------------------|----------------------------------|---------------------|

Product Name: Auto-Mag® Plasmid DNA Miniprep Kit

Intended Use for the Product:

Use of the substance/mixture: Research Use Only

Name, Address, and Telephone of the Responsible Party

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency telephone number

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

| |
|---------------------------|
| List of Components |
|---------------------------|

- Auto-Mag® D-1 Particle
- Solution 1
- Solution 2
- Neutralization Buffer
- DNA Elution Buffer
- RNase A

SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING**Identification of the substance or mixture**

Product Name: Auto-Mag® D-1 Particles
Product Family: DNA/RNA purification
Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification Not a dangerous substance according to GHS
GHS Symbol Elements n/a
Signal word n/a
Hazard statement(s) No data available
Precautionary statement(s) No data available
Other hazards No data available
HMIS Classification (0-4)
Health hazard: 0
Flammability: 0
Physical hazards: 0
NFPA Rating (0-4)
Health hazard: 0
Fire: 0
Reactivity Hazard: 0
Potential Health Effects No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

| Chemical Name | CAS No. | Concentration | Other Identifiers |
|---------------|---------|---------------|-------------------|
| n/a | n/a | n/a | n/a |

Full text of H-phrases: see section 16

SECTION 4. FIRST-AID MEASURES**General Advice**

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

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

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

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

Methods and materials for containment and cleaning up

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

Environmental precautions

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

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

Contains no substances with occupational exposure limit values.

Individual Protection**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/Face Protection:

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

Skin Protection:

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

Respiratory Protection:

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

Hygiene Measures

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

SECTION 9. PHYSICAL AND CHEMICAL PROTECTION

Basic Physical and Chemical Properties

| | |
|------------------------------|-------------------------------|
| Appearance | liquid. |
| Odor | Odorless |
| Color | Clear, with brown precipitate |
| PH | 6-8 |
| Melting Point/Freezing Point | No data available |
| Initial Boiling Point/Range | No data available |
| Evaporation Rate | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Explosive Limit | No data available |
| Vapor Pressure | No data available |
| Vapor Density (air = 1) | No data available |
| Relative Density (water = 1) | No data available |
| Solubility | No data available |
| Partition Coefficient, | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available (kinematic) |

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

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

| | |
|---|-----------------------------|
| LC50: | No information was located. |
| LD50 (oral): | No information was located. |
| LD50 (dermal): | No information was located. |
| Skin Corrosion/Irritation | No information was located. |
| Serious Eye Damage/Eye Irritation Eyes | No information was located. |

Respiratory or Skin Sensitization

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

| | |
|-------------------------------|-----------------------------|
| Germ Cell Mutagenicity | No information was located. |
|-------------------------------|-----------------------------|

STOT (Specific Target Organ Toxicity) - Single Exposure

| | |
|--------------------------|-----------------------------|
| Inhalation: | No information was located. |
| Skin Absorption: | No information was located. |
| Ingestion: | No information was located. |
| Aspiration Hazard | No information was located. |

Carcinogenicity

IARC: No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

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.

Additional Information

No information was located.

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

Harmful to aquatic life.

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**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 Hazards

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

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

SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING**Identification of the substance or mixture**

Product Name: Solution 1
Product Family: DNA/RNA purification
Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification Not a dangerous substance according to GHS
GHS Symbol Elements n/a
Signal word n/a
Hazard statement(s) No data available
Precautionary statement(s) No data available
Other hazards No data available
HMIS Classification (0-4)
Health hazard: 0
Flammability: 0
Physical hazards: 0
NFPA Rating (0-4)
Health hazard: 0
Fire: 0
Reactivity Hazard: 0
Potential Health Effects No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

| Chemical Name | CAS No. | Concentration | Other Identifiers |
|---------------|---------|---------------|-------------------|
| n/a | n/a | n/a | n/a |

Full text of H-phrases: see section 16

SECTION 4. FIRST-AID MEASURES**General Advice**

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

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

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

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

Methods and materials for containment and cleaning up

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

Environmental precautions

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

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Control Parameters**

Contains no substances with occupational exposure limit values.

Individual Protection**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/Face Protection:

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

Skin Protection:

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

Respiratory Protection:

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

Hygiene Measures

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

SECTION 9. PHYSICAL AND CHEMICAL PROTECTION**Basic Physical and Chemical Properties**

| | |
|------------------------------|-------------------------------|
| Appearance | liquid. |
| Odor | Odorless |
| Color | Colorless |
| PH | 6-8 |
| Melting Point/Freezing Point | No data available |
| Initial Boiling Point/Range | No data available |
| Evaporation Rate | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Explosive Limit | No data available |
| Vapor Pressure | No data available |
| Vapor Density (air = 1) | No data available |
| Relative Density (water = 1) | No data available |
| Solubility | No data available |
| Partition Coefficient, | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available (kinematic) |

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**Likely Routes of Exposure**

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation No information was located.

Serious Eye Damage/Eye Irritation Eyes No information was located.

Respiratory or Skin Sensitization

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

Germ Cell Mutagenicity No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard No information was located.**Carcinogenicity**

IARC: No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity No information was located.**Sexual Function and Fertility.** No information was located.**Interactive Effects** No information was located.**Synergistic Effects** No information was located.**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.

Additional Information No information was located.**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

Harmful to aquatic life.

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****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 Hazards

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

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

SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING**Identification of the substance or mixture**

Product Name: Solution 2
Product Family: DNA/RNA purification
Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

SECTION 2. HAZAEDS IDENTIFICATION**GHS Classification**

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

GHS Symbol Elements**Signal word**

Danger

Hazard statement(s)

H290 Causes severe skin burns and eye damage
H315 Causes skin irritation.
H319 Causes serious eye irritation.

Precautionary statement(s)

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

HMIS Classification (0-4)

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Other hazards No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Solution 2

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

Auto-Mag® Plasmid DNA Miniprep Kit Material Safety Data Sheet

Mixture of the substances listed below with nonhazardous additions.

| Chemical Name | CAS No. | Concentration | Other Identifiers |
|------------------|---------------|---------------|----------------------|
| Sodium Hydroxide | 1310 - 73 - 2 | 0.5 - 2% | Skin Corr. 1A; H 314 |

Refer to Section 16 for full text of H-Statements and R-Phrases.

SECTION 4. FIRST-AID MEASURES

General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

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

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Carbon oxides (CO, CO₂), Sulfur Oxides (SOX), Nitrogen oxides (NO_x).

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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

Methods and materials for containment and cleaning up

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

Environmental precautions

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

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Solution 2

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

Auto-Mag® Plasmid DNA Miniprep Kit

Material Safety Data Sheet

Control Parameters

| Components | CAS-No | Value | Control Parameters | Basis |
|------------------|--|-------|--------------------|--|
| Sodium Hydroxide | 1310-72-2 | CEIL | 2mg/m ³ | USA, ACGIH Threshold Limit Values |
| | | C | 2mg/m ³ | USA OSHA TABLE Z-1 Limits for Air Contaminants- 1910.1000 |
| | | TWA | 2mg/m ³ | USA. Occupational Exposure Limit Limits for Air Contaminants |
| | | C | 2mg/m ³ | USA. ACGIH Threshold Limit Values |
| Remarks | Eye, Skin & Respiratory Tract Irritation | | | |
| | | C | | USA. NIOSH Recommended Exposure Limits |

Individual Protection

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/Face Protection:

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

Skin Protection:

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

Respiratory Protection:

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

Hygiene Measures

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

SECTION 9. PHYSICAL AND CHEMICAL PROTECTION

Basic Physical and Chemical Properties

| | |
|---|-------------------|
| Appearance | liquid. |
| Odor | Odorless |
| Color | Colorless |
| PH | >12 |
| Melting Point/Freezing Point | No data available |
| Initial Boiling Point/Range | No data available |
| Evaporation Rate | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Explosive Limit | No data available |
| Vapor Pressure | No data available |
| Vapor Density (air = 1) | No data available |
| Relative Density (water = 1) | No data available |
| Solubility | No data available |
| Partition Coefficient, | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity No data available (kinematic) | No data available |

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, Nitrogen oxides (NOx), hydrogen chloride gas.

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): 500 100% mg/kg (rat)

LD50 (dermal): 1350 mg/kg

Skin Corrosion/Irritation No information was located.

Serious Eye Damage/Eye Irritation Eyes No information was located.

Respiratory or Skin Sensitization

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

Germ Cell Mutagenicity No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard No information was located.

Carcinogenicity

IARC: No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity No information was located.

Sexual Function and Fertility. No information was located.

Interactive Effects No information was located.

Synergistic Effects No information was located.

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.

Additional Information No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Solution 2

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

Auto-Mag® Plasmid DNA Miniprep Kit

Material Safety Data Sheet

| | |
|--------------------------------------|-------------------|
| 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 |
| Harmful to aquatic life. | |

SECTION 13. DISPOSAL CONSIDERATIONS

Product:

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

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

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 Hazards

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

| | |
|------------|--|
| Acute Tox. | Acute Toxicity |
| H314 | Causes severe skin burns and eye damage. |
| H302 | Harmful if swallowed |
| H315 | Causes skin irritation |

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SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

Identification of the substance or mixture

Product Name: Neutralization Buffer
Product Family: DNA/RNA purification
Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

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

GHS Symbol Elements



Signal word

Danger

Hazard statement(s)

H302 Harmful if swallowed.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled

Precautionary statement(s)

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

HMIS Classification (0-4)

Health hazard: 2
Flammability: 0
Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 2
Fire: 0
Reactivity Hazard: 0

Other hazards No data available

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

| Chemical Name | CAS No. | Concentration | Other Identifiers |
|-------------------------|---------|---------------|-------------------|
| Guanidine Hydrochloride | 50-01-1 | 50-100% | n/a |

Refer to Section 16 for full text of H-Statements and R-Phrases.

SECTION 4. FIRST-AID MEASURES**General Advice**

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

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

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES**Conditions of flammability**

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

Carbon oxides (CO, CO₂), Sulfur Oxides (SOX), Nitrogen oxides (NO_x).

SECTION 6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

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

Methods and materials for containment and cleaning up

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

Environmental precautions

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

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure limit values.

Individual Protection**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/Face Protection:

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

Skin Protection:

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

Respiratory Protection:

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

Hygiene Measures

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

SECTION 9. PHYSICAL AND CHEMICAL PROTECTION**Basic Physical and Chemical Properties**

| | |
|------------------------------|-------------------------------|
| Appearance | liquid. |
| Odor | Odorless |
| Color | Colorless |
| PH | <5 |
| Melting Point/Freezing Point | No data available |
| Initial Boiling Point/Range | No data available |
| Evaporation Rate | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Explosive Limit | No data available |
| Vapor Pressure | No data available |
| Vapor Density (air = 1) | No data available |
| Relative Density (water = 1) | No data available |
| Solubility | No data available |
| Partition Coefficient, | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available (kinematic) |

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, Nitrogen oxides (NOx), hydrogen chloride gas.

SECTION 11. TOXICOLOGICAL INFORMATION**Likely Routes of Exposure**

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation No information was located.

Serious Eye Damage/Eye Irritation Eyes No information was located.

Respiratory or Skin Sensitization

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

Germ Cell Mutagenicity No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard No information was located.

Carcinogenicity

IARC: No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity No information was located.

Sexual Function and Fertility. No information was located.

Interactive Effects No information was located.

Synergistic Effects No information was located.

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.

Additional Information No information was located.

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

Harmful to aquatic life.

SECTION 13. DISPOSAL CONSIDERATIONS

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

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**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 Hazards

Acute Health Hazard

| Right to Know Components | Components | CAS No. |
|---|----------------------------------|----------------------|
| Massachusetts | Water | 7732-18-5 |
| Pennsylvania | Water Guanidine Hydrochloride | 7732-18-5 50-01-1 |
| New Jersey | Water Guanidine Hydrochloride | 7732-18-5 50-01-1 |
| 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**

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

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SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

Identification of the substance or mixture

Product Name: DNA Elution Buffer
Product Family: DNA/RNA purification
Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
1860 Montreal Rd.
Tucker, GA 30084
USA.
Telephone 404-290-5063
Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
Contact your local Poison Control Center.

SECTION 2. HAZAEDS IDENTIFICATION

| | |
|----------------------------|--|
| GHS Classification | Not a dangerous substance according to GHS |
| GHS Symbol Elements | n/a |
| Signal word | n/a |
| Hazard statement(s) | No data available |
| Precautionary statement(s) | No data available |
| Other hazards | No data available |
| HMIS Classification (0-4) | |
| Health hazard: | 0 |
| Flammability: | 0 |
| Physical hazards: | 0 |
| NFPA Rating (0-4) | |
| Health hazard: | 0 |
| Fire: | 0 |
| Reactivity Hazard: | 0 |
| Potential Health Effects | No data available |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

| Chemical Name | CAS No. | Concentration | Other Identifiers |
|---------------|---------|---------------|-------------------|
| n/a | n/a | n/a | n/a |

Full text of H-phrases: see section 16

SECTION 4. FIRST-AID MEASURES

General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

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

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Conditions of flammability Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO2, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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

Methods and materials for containment and cleaning up

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

Environmental precautions

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

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Contains no substances with occupational exposure limit values.

Individual Protection

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/Face Protection:

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

Skin Protection:

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

Respiratory Protection:

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

Hygiene Measures

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

SECTION 9. PHYSICAL AND CHEMICAL PROTECTION**Basic Physical and Chemical Properties**

| | |
|------------------------------|-------------------------------|
| Appearance | liquid. |
| Odor | Odorless |
| Color | Colorless |
| PH | 6-8 |
| Melting Point/Freezing Point | No data available |
| Initial Boiling Point/Range | No data available |
| Evaporation Rate | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Explosive Limit | No data available |
| Vapor Pressure | No data available |
| Vapor Density (air = 1) | No data available |
| Relative Density (water = 1) | No data available |
| Solubility | No data available |
| Partition Coefficient, | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity | No data available (kinematic) |

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**Likely Routes of Exposure**

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation No information was located.

Serious Eye Damage/Eye Irritation Eyes No information was located.

Respiratory or Skin Sensitization

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

Germ Cell Mutagenicity No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard

No information was located.

Carcinogenicity

IARC: No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity

No information was located.

Sexual Function and Fertility.

No information was located.

Interactive Effects

No information was located.

Synergistic Effects

No information was located.

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.

Additional Information

No information was located.

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

Harmful to aquatic life.

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**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 Hazards

Acute Health Hazard

DNA Elution Buffer

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

Auto-Mag® Plasmid DNA Miniprep Kit

Material Safety Data Sheet

| 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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SECTION 1. IDENTIFICATION OF SUBSTANCE MIXTURE, COMPANY, AND UNDERTAKING

Identification of the substance or mixture

Product Name: RNase A
 Product Family: DNA/RNA purification
 Recommended Use: For laboratory research purposes only

Manufacturer/Supplier

AMD Biotech Inc.
 1860 Montreal Rd.
 Tucker, GA 30084
 USA.
 Telephone 404-290-5063
 Email Support@amdbiotech.com

Emergency Telephone

If Medical Emergency, Call 911
 Contact your local Poison Control Center.

SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification

Respiratory Sensitization 1

GHS Symbol Elements n/a

Signal word

Warning

Hazard statement(s)

H316 Causes mild skin irritation

H320 Causes eye irritation.

Precautionary statement(s)

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

Other hazards No data available

HMIS Classification (0-4)

Health hazard: 0

Flammability: 0

Physical hazards: 0

NFPA Rating (0-4)

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation: May cause respiratory tract irritation

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

Eyes: Causes eye irritation.

Ingestion: May be harmful if swallowed.

SECTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

| Chemical Name | CAS No. | Concentration | Other Identifiers |
|---------------|---------|---------------|-------------------|
|---------------|---------|---------------|-------------------|

| | | | |
|----------------|-----------|-----------|-----|
| Ribonuclease A | 9001-99-4 | 5-10mg/ml | n/a |
| Glycerol | 56-81-5 | 30-50 % | n/a |

Refer to Section 16 for full text of H-Statements and R-Phrases

SECTION 4. FIRST-AID MEASURES

General Advice

Exit to a safe area. Consult a physician. Seek medical attention.

If Inhalation

Move to fresh air. If not breathing, give artificial respiration. Consult a physician

In Case of Skin Contact

Exit to safe area. Wash thoroughly with soap and water. Seek medical attention.

In Case of Eye Contact

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

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Seek medical attention.

SECTION 5. FIRE-FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible

Suitable Extinguishing Media

Dry powder, CO₂, water spray, or regular foam.

Special Protective Equipment and Precautions for Fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products

No data available

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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

Methods and materials for containment and cleaning up

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

Environmental precautions

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

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

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

| Components | CAS-No | Value | Control Parameters | Basis |
|------------|---------|-------|---------------------|--------------------------------------|
| Glycerol | 56-81-5 | TWA | 10mg/m ³ | USA. OSHA - TABLE Z-1 Limits for Air |

| | | | | |
|--|--|--|--|-----------------------------|
| | | | | Contaminants - 1910.1000 |
|--|--|--|--|-----------------------------|

Individual Protection

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/Face Protection:

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

Skin Protection:

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

Respiratory Protection:

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

Hygiene Measures

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

SECTION 9. PHYSICAL AND CHEMICAL PROTECTION

Basic Physical and Chemical Properties

| | |
|---|-------------------|
| Appearance | liquid. |
| Odor | No data available |
| Color | No data available |
| PH | No data available |
| Melting Point/Freezing Point | No data available |
| Initial Boiling Point/Range | No data available |
| Evaporation Rate | No data available |
| Flash Point | No data available |
| Flammability (solid, gas) | No data available |
| Upper/Lower Explosive Limit | No data available |
| Vapor Pressure | No data available |
| Vapor Density (air = 1) | No data available |
| Relative Density (water = 1) | No data available |
| Solubility | No data available |
| Partition Coefficient, | No data available |
| Auto-ignition Temperature | No data available |
| Decomposition Temperature | No data available |
| Viscosity No data available (kinematic) | No data available |

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

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhalation.

Acute Toxicity

LC50: No information was located.

LD50 (oral): No information was located.

LD50 (dermal): No information was located.

Skin Corrosion/Irritation No information was located.

Serious Eye Damage/Eye Irritation Eyes No information was located.

Respiratory or Skin Sensitization

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

Germ Cell Mutagenicity No information was located.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation: No information was located.

Skin Absorption: No information was located.

Ingestion: No information was located.

Aspiration Hazard No information was located.

Carcinogenicity

IARC: No component of this product 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 present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive Toxicity No information was located.

Sexual Function and Fertility. No information was located.

Interactive Effects No information was located.

Synergistic Effects No information was located.

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.

Additional Information No information was located.

SECTION 12. ECOLOGICAL INFORMATION

Toxicity No data available

Persistence and Degradability No data available

Bio-accumulative Potential No data available

Mobility in Soil No data available

Other Adverse Effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Product: Disposal should be in accordance with applicable regional, national, and local laws and regulations. Refer to Section 7: Handling and Storage and Section 8: Exposure Control/Personal Protection for additional handling information and protection of employees.

Contaminated Packaging:

Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

| | |
|----------|---------------------------------|
| DOT (US) | Not considered dangerous goods. |
| IMDG | Not considered dangerous goods. |
| IATA | Not considered dangerous goods. |

SECTION 15. REGULATORY INFORMATION**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 Hazards

Chronic Health Hazard

| Right to Know Components | Components | CAS No. |
|--|-----------------------------------|-----------------------------------|
| Massachusetts | Glycerol | 56-81-5 |
| Pennsylvania | Glycerol Water | 56-81-5 7732-18-5 |
| New Jersey | Glycerol Water Ribonuclease | 56-81-5 7732-18-5 9001-99-4 |
| 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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