

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

Product InformationRevision Date: 05-18-2023Version: 1.2
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Product Name: Auto-Mag[®] Plasmid DNA Midi Prep 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

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

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

Identification of the substance or mixture

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

Manufacturer/Supplier

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

Emergency Telephone

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

SECTION 2. HAZAEDS IDENTIFICATION

GHS Classification GHS Symbol Elements Signal word	Not a dangerous substance according to GHS n/a 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

SETCTION 3. COMPOSITION/IFORMATION 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

SETION 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.

Auto-Mag[®] Plasmid DNA Midi Prep Kit

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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.

SETION 5. FIRE-FIGHTING MEASURES

Conditions of flammabilityNot flammable or combustibleSuitable Extinguishing MediaDry powder, CO2, water spray, or regular foam.Special Protective Equipment and Precautions for Fire-fightersWear self-contained breathing apparatus for firefighting if necessary.Hazardous combustion productsNo data available

SETION 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.

SETION 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.

SETION 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 googles 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

Auto-Mag[®] Plasmid DNA Midi Prep Kit Material Safety Data Sheet

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

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

SETION 9. PHYSCAIL AND CHIMECAL 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)	No data available

SETION 10. STABLITY 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		

SETION 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 absor	bed into the body through the skin.		

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

Germ Cell Mutagenicity	enicity 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.	

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

Material Safety Data Sheet

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. SETION 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.	

SETION 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.

SETION 14. TRANSPORT INFORMATION

DOT (US) Not considered dangerous goods. IMDG Not considered dangerous goods. ΙΑΤΑ Not considered dangerous goods.

SETION 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

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

Auto-Mag[®] Plasmid DNA Midi Prep 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.			

SETION 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.

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

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

Identification of the substance or mixture

Product Name: Product Family: Recommended Use: Solution 1 DNA/RNA purification 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

SETCTION 3. COMPOSITION/IFORMATION 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

SETION 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

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Material Safety Data Sheet

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.

SETION 5. FIRE-FIGHTING MEASURES

Conditions of flammabilityNot flammable or combustibleSuitable Extinguishing MediaDry powder, CO2, water spray, or regular foam.Special Protective Equipment and Precautions for Fire-fightersWear self-contained breathing apparatus for firefighting if necessary.Hazardous combustion productsNo data available

SETION 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.

SETION 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.

SETION 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 googles 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:

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Material Safety Data Sheet

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.

SETION 9. PHYSCAIL AND CHIMECAL 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)	No data available

SETION 10. STABLITY AND REACTIVITY

Reactivity Not re **Chemical Stability** Stable under recommended storage conditions.

Not reactive under normal conditions of use

Chemical Stability	
Stable under recommended storage con	ditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	No data available
Hazardous Decomposition Products	No data available

SETION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure Skin contact; eye contact; ingestion; inhalation. **Acute Toxicity** LC50: No information was located. No information was located. LD50 (oral): 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

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

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 prese	nt 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 pres	sent 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 preser	nt 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 pres	ent 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 res	piratory irritation.
Ingestion; Harmful if swallowed.	
Skin: Harmful if absorbed through skin. Ma	ay cause skin irritation.
Eyes: May cause eye irritation.	
Additional Information	No information was located.
SETION 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.	

SETION 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.

SETION 14. TRANSPORT INFORMATION

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

SETION 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**

Auto-Mag[®] Plasmid DNA Midi Prep Kit **Material Safety Data Sheet**

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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.		

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

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

Identification of the substance or mixture

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

Manufacturer/Supplier

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

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 Hazard statement(s) H290 H315 H319 Danger

Causes severe skin burns and eye damage Causes skin irritation. 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

SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

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.

SETION 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.

SETION 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 (NOx).

SETION 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.

SETION 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.

SETION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Control Parameters

Components	CAS-No	Value	Control	Basis
			Parameters	
Sodium Hydroxide	1310-72-2	CEIL	2mg/m^3	USA, ACGIH Threshold Limit Values
		С	2mg/m^3	USA OSHA TABLE Z-1Linits for Air
				Contaminants- 1910.1000
		TWA	2mg/m^3	USA. Occupational Exposure
				Limit1Linits for Air Contaminants
		С	2mg/m^3	USA. ACGIH Threshold Limit Values
Remarks	Eye, Skin &	Eye, Skin & Respiratory Tract Irritation		
		С		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 googles 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.

SETION 9. PHYSCAIL AND CHIMECAL 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

SETION 10. STABLITY AND REACTIVITY

Auto-Mag[®] Plasmid DNA Midi Prep Kit

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

Material Safety Data Sheet

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.

SETION 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	n. May cause skin irritation.	
Eyes: May cause eye irritation.		
Additional Information	No information was located.	

SETION 12. ECOLOGICAL INFORMATION

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

Toxicity
Persistence and Degradability
Bio-accumulative Potential
Mobility in Soil
Other Adverse Effects
Harmful to aquatic life.

No data available No data available No data available No data available No data available

SETION 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.

SETION 14. TRANSPORT INFORMATION

DOT (US)	Not considered dangerous goods.
IMDG	Not considered dangerous goods.
ΙΑΤΑ	Not considered dangerous goods.

SETION 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
Colifornia Bron. CE Componente		

California Prop. 65 Components

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

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

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

Identification of the substance or mixture

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

Manufacturer/Supplier

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

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)		
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/ mi	st/ vapors/ spray	
P305+P351+P338 IF IN EYES: Rinse cautiou	sly 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	

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

SETCTION 3. COMPOSITION/IFORMATION 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.

SETION 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.

SETION 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 (NOx).

SETION 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.

SETION 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.

SETION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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 googles 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.

SETION 9. PHYSCAIL AND CHIMECAL PROTECTION

Basic Physical and Chemical Properties

Appearance	liquid.
Odor	Odorless
Color	Colorless
РН	<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)	No data available

SETION 10. STABLITY AND REACTIVITY

Reactivity	Not reactive under normal conditions of use
Chemical Stability	
Stable under recommended storage condi	tions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	
Heating	
Incompatible Materials	
Strong acids, strong oxidizing agents, cyan	ides
Hazardous Decomposition Products	

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

Carbon oxides, Nitrogen oxides (NOx), hydrogen chloride gas.

SETION 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 1	Γoxicity) - Single Exposure
Inhalation.	No information w

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.

No information was located.		
No information was located.		
No information was located.		
No information was located.		
Inhalation: Toxic if inhaled. May cause respiratory irritation.		
Ingestion; Harmful if swallowed.		
Skin: Harmful if absorbed through skin. May cause skin irritation.		
No information was located.		

SETION 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.	

SETION 13. DISPOSAL CONSIDERATIONS

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

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

Contaminated Packaging:

Disposal must be made according to official regulations.

SETION 14. TRANSPORT INFORMATION

DOT (US)	Not considered dangerous goods.
IMDG	Not considered dangerous goods.
ΙΑΤΑ	Not considered dangerous goods.

SETION 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
	Guanidine Hydrochloride	50-01-1
New Jersey	Water	7732-18-5
	Guanidine Hydrochloride	50-01-1
California Prop. 65 Components		

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

SETION 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

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.

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

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

Identification of the substance or mixture

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

Manufacturer/Supplier

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

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

SETCTION 3. COMPOSITION/IFORMATION 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

SETION 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

Auto-Mag[®] Plasmid DNA Midi Prep Kit

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

es, and Regulations Material Safety Data Sheet

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.

SETION 5. FIRE-FIGHTING MEASURES

Conditions of flammabilityNot flammable or combustibleSuitable Extinguishing MediaDry powder, CO2, water spray, or regular foam.Special Protective Equipment and Precautions for Fire-fightersWear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products No data available

SETION 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.

SETION 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.

SETION 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 googles 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.

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

Hygiene Measures

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

SETION 9. PHYSCAIL AND CHIMECAL 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)	No data available

SETION 10. STABLITY AND REACTIVITY

Reactivity	Not reactive under normal conditions of use
Chemical Stability	
Stable under recommended storage con	ditions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	No data available
Hazardous Decomposition Products	No data available

SETION 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure

Skin contact; eye contact; ingestion; inhal	lation.
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 absor	rbed into the body through the skin. Irritating to skin and mucous
membranes.	
Germ Cell Mutagenicity	No information was located.
STOT (Specific Target Organ Toxicity) - Si	ngle Exposure
Inhalation:	No information was located

• •	0	0	 U
Inhalation:			No information was located.
Skin Absorption:			No information was located.
Ingestion:			No information was located.

Auto-Mag[®] Plasmid DNA Midi Prep Kit

Material Safety Data Sheet

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

Aspiration Hazard	No information was located.
Carcinogenicity	
IARC: No component of this produ	ct present at levels greater than or equal to 0.1% is identified as probable,
possible, or confirmed human card	inogen by IARC.
ACGIH: No component of this proc	luct 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 produc	t 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 prod	uct 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 ca	use 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.

ToxicityNo data availablePersistence and DegradabilityNo data availableBio-accumulative PotentialNo data availableMobility in SoilNo data availableOther Adverse EffectsNo data availableHarmful to aquatic life.No data available

SETION 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.

SETION 14. TRANSPORT INFORMATION

DOT (US)Not considered dangerous goods.IMDGNot considered dangerous goods.IATANot considered dangerous goods.

SETION 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

Auto-Mag[®] Plasmid DNA Midi Prep Kit Material Safety Data Sheet

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

Right to Know Components	Components	CAS No.	
Massachusetts	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.			

SETION 16. OTHER INFORMATION

GHS Full Text Phrases n/a

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

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

Identification of the substance or mixture

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

Manufacturer/Supplier

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

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 cauti	ously 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 irri	tation
Skin: May be harmful if absorbed through	skin. Causes skin irritation.
Eyes: Causes eye irritation.	
Ingestion: May be harmful if swallowed.	

SETCTION 3. COMPOSITION/IFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

Chemical Name CAS No. Concentration Other Identifiers	5
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RNase A

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

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

SETION 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.

SETION 5. FIRE-FIGHTING MEASURES

Conditions of flammabilityNot flammable or combustibleSuitable Extinguishing MediaDry powder, CO2, water spray, or regular foam.Special Protective Equipment and Precautions for Fire-fightersWear self-contained breathing apparatus for firefighting if necessary.Hazardous combustion productsNo data available

SETION 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.

SETION 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.

SETION 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

RNase A

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

	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 googles 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.

SETION 9. PHYSCAIL AND CHIMECAL 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

SETION 10. STABLITY AND REACTIVITY

Reactivity	Not reactive under normal conditions of use
Chemical Stability	
Stable under recommended storage cond	itions.
Possibility of Hazardous Reactions	No data available
Conditions to Avoid	No data available
Incompatible Materials	No data available
Hazardous Decomposition Products	No data available

SETION 11. TOXICOLOGICAL INFORMATION

RNase A

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

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) - Si	ngle 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 res	spiratory 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.

SETION 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

SETION 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.

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

SETION 14. TRANSPORT INFORMATION

DOT (US)	Not considered dangerous goods.
IMDG	Not considered dangerous goods.
ΙΑΤΑ	Not considered dangerous goods.

SETION 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	56-81-5	
	Water	7732-18-5	
New Jersey	Glycerol	56-81-5	
	Water	7732-18-5	
	Ribonuclease	9001-99-4	
California Prop. 65 Components			
This product doos not contain an	v chamicals listed by the State .	f California's Drangsition 65	

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

SETION 16. OTHER INFORMATION

GHS Full Text Phrases

n/a

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