



SK0076-ION-8 Archer[®] FusionPlex[®] Pan-Heme Kit for Ion Torrent[™]—Safety Data Sheets (SDS)

Components:

- SA0076-8-1 – FusionPlex Pan-Heme GSP1
- SA0076-8-2 – FusionPlex Pan-Heme GSP2
- SA0020 – 500 mM Tris-HCl, pH 8.0
- SA0021 – Ultra Pure Water
- SA0022 – Ultra Pure Water for Ethanol Dilution
- SA0126 – 10x VCP Primer Mix
- SA0001 – Random Priming
- SA0002 – First Strand cDNA Synthesis
- SA0003 – Second Strand cDNA Synthesis
- SA0004 – End Repair, dA-Tailing
- SA0005 – Adapter Ligation
- SA0111 – First PCR
- SA0112 – Second PCR

For Research Use Only. Not for use in diagnostic procedures.

This product was developed, manufactured, and sold for in vitro use only. The product is not suitable for administration to humans or animals.

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For more information please visit <http://www.archerdx.com>



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Archer® FusionPlex® Pan-Heme GSP1
Product Number: SA0076-8-1
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification

Health hazard:	0
Flammability:	0
Physical hazards:	0

NFPA Rating

Health hazard:	0
Fire:	0
Reactivity Hazard	0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.



SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	



SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.



SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbon oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Safety Data Sheet

SA0076-8-1 Archer FusionPlex Pan-Heme GSP1

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA hazards

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

California Prop 65 Components



Safety Data Sheet

SA0076-8-1 Archer FusionPlex Pan-Heme GSP1

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Archer™ FusionPlex Heme v2 GSP1 – 8 reactions
Product Number: SK0073-8-1
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification

Health hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0
Fire: 0
Reactivity Hazard 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.
Skin May be harmful if absorbed through skin. May cause skin irritation.
Eyes May cause eye irritation.
Ingestion May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.



SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	

**SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment:**

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbox oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Safety Data Sheet

SA0073-8-1 Archer FusionPlex Heme v2 GSP1 – 8 reactions

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA hazards

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

California Prop 65 Components



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Archer® FusionPlex® Pan-Heme GSP2
Product Number: SA0076-8-2
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification

Health hazard:	0
Flammability:	0
Physical hazards:	0

NFPA Rating

Health hazard:	0
Fire:	0
Reactivity Hazard	0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.



SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	



SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbon oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Safety Data Sheet

SA0076-8-2 Archer FusionPlex Pan-Heme GSP2

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA hazards

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

California Prop 65 Components



Safety Data Sheet

SA0076-8-2 Archer FusionPlex Pan-Heme GSP2

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Random Priming
Product Number: SA0001
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification

Health hazard:	0
Flammability:	0
Physical hazards:	0

NFPA Rating

Health hazard:	0
Fire:	0
Reactivity Hazard	0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.

SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	



SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbox oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Material Safety Data Sheet
SA0001 Random Priming

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA hazards

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

California Prop 65 Components



**Material Safety Data Sheet
SA0001 Random Priming**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



Material Safety Data Sheet
SA0002 First Strand cDNA Synthesis

SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: First Strand cDNA Synthesis
Product Number: SA0002
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

This product is not classified according to the Globally Harmonized System (GHS).

HMIS & NFPA Ratings

Health Hazard: 1
Flammability: 0
Reactivity: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME:		CAS #:	FORMULA:	SARA 313:
Tromethamine	1 - 5%	77-86-1	C ₄ H ₁₁ NO ₃	No
Potassium Chloride	1 - 5%	7447-40-7	KCl	No
DTT	1 - 5%	3483-12-3	C ₄ H ₁₀ O ₂ S ₂	No

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.



SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	



SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbon oxides, carbon monoxide, nitrogen oxides, hydrogen chloride gas, carbon dioxides and sodium oxides.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Material Safety Data Sheet
SA0002 First Strand cDNA Synthesis

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.



SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Archer™ PreSeq™ RNA QC Assay 10x Primer Mix
Product Number: SA0121
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview**OSHA Hazards**

No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification

Health hazard: 0
Flammability: 0
Physical hazards: 0

NFPA Rating

Health hazard: 0
Fire: 0
Reactivity Hazard 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.



SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	

**SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT****Personal Protective Equipment:**

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.



SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbox oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Safety Data Sheet

SA0121 Archer™ PreSeq™ RNA QC Assay 10x Primer Mix

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

No SARA hazards

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

California Prop 65 Components



Safety Data Sheet

SA0121 Archer™ PreSeq™ RNA QC Assay 10x Primer Mix

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



Material Safety Data Sheet
SA0003 Second Strand cDNA Synthesis

SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Second Strand cDNA Synthesis
Product Number: SA0003
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

This product is not classified according to the Globally Harmonized System (GHS).

HMIS & NFPA Ratings

Health Hazard: 1
Flammability: 0
Reactivity: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Compounds

CHEMICAL NAME:		CAS #:	FORMULA:	SARA 313:
Tromethamine	1 - 5%	77-86-1	C ₄ H ₁₁ NO ₃	No
Sodium Chloride	1 - 5%	7647-14-5	NaCl	No

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.



SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	



SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.



SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbon oxides, carbon monoxide, nitrogen oxides, hydrogen chloride gas, carbon dioxides and sodium oxides.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Material Safety Data Sheet
SA0003 Second Strand cDNA Synthesis

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.



SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: End Repair/dA-tailing
Product Number: SA0004
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

This product is not classified according to the Globally Harmonized System (GHS).

HMIS & NFPA Ratings

Health Hazard: 1
Flammability: 0
Reactivity: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Compounds

CHEMICAL NAME:	CAS #:	FORMULA:	SARA 313:
Tromethamine	1 - 5%	77-86-1	C ₄ H ₁₁ NO ₃
			No

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.

SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	



SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbon oxides, carbon monoxide, nitrogen oxides, hydrogen chloride gas, carbon dioxides and sodium oxides.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Material Safety Data Sheet
SA0004 End Repair/dA-tailing

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.



SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Adapter Ligation
Product Number: SA0005
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

This product is not classified according to the Globally Harmonized System (GHS).

HMIS & NFPA Ratings

Health Hazard: 1
Flammability: 0
Reactivity: 0

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Compounds

CHEMICAL NAME:		CAS #:	FORMULA:	SARA 313:
Tromethamine	1 - 5%	77-86-1	C ₄ H ₁₁ NO ₃	No
DTT	1 - 5%	3483-12-3	C ₄ H ₁₀ O ₂ S ₂	No

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.

SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbon oxides, carbon monoxide, nitrogen oxides, hydrogen chloride gas, carbon dioxides and sodium oxides.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available

Inhalation LC50: No data available.

Dermal LD50: No data available.

No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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

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

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard



Material Safety Data Sheet
SA0005 Adapter Ligation

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available

Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.



SECTION XVI – OTHER INFORMATION

Disclaimer:

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The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: First PCR
Product Number: SA0111
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

This product is not classified according to the Globally Harmonized System (GHS).

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Compounds

CHEMICAL NAME:		CAS #:	FORMULA:	SARA 313:
Potassium Chloride	1 - 5%	7447-40-7	KCl	No

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.

SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled



Material Safety Data Sheet
SA0111 First PCR

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT



Material Safety Data Sheet
SA0111 First PCR

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbox oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available
Inhalation LC50: No data available.
Dermal LD50: No data available.
No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available



Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

SECTION XVI – OTHER INFORMATION

Disclaimer:

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The above information is believed to be accurate but may not be all inclusive and shall be used as a reference guide only. ArcherDX, Inc. shall not be held liable for any damage resulting from handling or contact with this product.



SECTION I – PRODUCT & COMPANY IDENTIFICATION

Product Name: Second PCR
Product Number: SA0112
Manufacturer: ArcherDX, Inc.
2477 55th Street, Suite 202
Boulder, CO 80301
Telephone: (877) 771 1093
Fax: (303) 357 9001

SECTION II – HAZARD(S) IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards.

This product is not classified according to the Globally Harmonized System (GHS).

Potential Health Effects

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

SECTION III – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Compounds

CHEMICAL NAME:		CAS #:	FORMULA:	SARA 313:
Potassium Chloride	1 - 5%	7447-40-7	KCl	No

The ingredients listed in this section include only those items that have more than 1% of a component classified as hazardous and 0.1% of a component classified as carcinogenic.

SECTION IV – FIRST AID MEASURES

General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled



Material Safety Data Sheet
SA0112 Second PCR

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

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

SECTION V – FIRE FIGHTING MEASURES

Conditions of flammability

Not flammable or combustible.

Suitable extinguishable media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions – Carbon oxides.

Hazardous decomposition products formed under fire conditions – Nature of decomposition products not known.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal precautions

Use personal protective equipment. Avoid breathing dust, vapours, mist or gas. Ensure adequate ventilation.

Evacuate personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Sweep up and shovel. Keep in a suitable, closed container for proper disposal.

SECTION VII – HANDLING AND STORAGE

HANDLING:	STORAGE:	NOTES:
Avoid Inhalation	Keep tightly closed	Hygroscopic
Avoid contact with eyes, skin, and clothing	Store in cool, dry place	
	Recommended storage: -20°C	

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTIVE EQUIPMENT

Personal Protective Equipment:

Respiratory:	Respiratory protection not required. Work in a well ventilated area or laboratory hood.
Hand:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Eye:	Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
Skin and Body:	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Environmental Exposure Controls:	Prevent product from entering drains.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form	Lyophilized powder
Color	White

Safety Data

pH	No data available.
Melting point/Freezing point	No data available.
Boiling point	No data available.
Flash point	No data available.
Ignition temperature	No data available.
Auto-ignition temperature	No data available.
Lower explosion limit	No data available.
Upper explosion limit	No data available.
Vapor pressure	No data available.
Density	No data available.
Water solubility	No data available.
Partition coefficient: n-octanol/water	No data available.
Relative vapor density	No data available.
Odor	None.
Odor threshold	No data available.
Evaporation rate	No data available.

SECTION X – STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions. Hygroscopic.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition products:	Hazardous decomposition products formed under fire conditions – Carbox oxides. Other decomposition products – no data available.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity

Oral LD50: No data available
Inhalation LC50: No data available.
Dermal LD50: No data available.
No other information on acute toxicity: No data available.

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity – single exposure (GHS)

No data available

Specific target organ toxicity – repeated exposure (GHS)

No data available

Aspiration hazard

No data available.

Potential Health Effects:

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

Synergistic effects

No data available



Additional information

RTECS: Not available

SECTION XII – ECOLOGICAL INFORMATION

Data not available.

SECTION XIII – DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and local regulations.

SECTION XIV – TRANSPORT INFORMATION

Substance considered non-hazardous for ground or air transport. No DOT shipping name required.

SECTION XV – REGULATORY INFORMATION

U.S. Federal Regulations:

OSHA Hazards

No known OSHA hazards.

SARA 302:

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

SARA 313:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

Massachusetts Right to Know Components:

No components are subject to the Massachusetts Right to Know Act.

SECTION XVI – OTHER INFORMATION

Disclaimer:

This product intended for research use only. Not for use in diagnostic procedures. Use of material must be supervised by technically qualified individual.

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