

Ligation Step 1, 2.0

1 PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: Ligation Step 1, 2.0
SDS Number: SA0202_SA0638.A
Revision Date: 2/24/2018
Product Use: For research use only.

Supplier Details: ArcherDX, Inc.
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2 HAZARDS IDENTIFICATION

Classification of Substance

GHS Classification in Accordance with 29 CFR 1910 (OSHA HCS):
 No GHS Classifications Indicated

GHS Label Elements, Including Precautionary Statements

GHS Signal Word: **NONE**

GHS Hazard Pictograms:

No GHS pictograms indicated for this product

GHS Hazard Statements:

No GHS hazards statements indicated

GHS Precautionary Statements:

No GHS precautionary statements indicated

3 COMPOSITION/INFORMATION ON INGREDIENTS

Product is non-hazardous and does not contain more than 1% of any component classified as hazardous or more than 0.1% of any component classified as carcinogenic.

4 FIRST AID MEASURES

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact: Wash off with soap and plenty of water.
Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth with water.

5 FIRE FIGHTING MEASURES

Product will not burn. Use fire-fighting methods applicable to the surrounding fire. Firefighters should wear special protective equipment and self-contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products - carbon oxides (CO, CO2)

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Hazardous decomposition products formed under fire conditions - carbon oxides (CO, CO₂), other possibly toxic smoke or fumes.

6 ACCIDENTAL RELEASE MEASURES

Personal precautions

See Section 8 for personal protective equipment. Avoid breathing dust, vapors, mist or gas. Ensure adequate ventilation. Evacuate untrained or unnecessary personnel to safe areas.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Floor and surfaces may be slippery. Mop up small spills. Dike area with sand or other inert material for large spills. Flush area with water to remove residue. Dispose of properly.

7 HANDLING AND STORAGE

Handling Precautions: See Section 8 for personal protective equipment. Avoid contact with eyes or repeated or prolonged contact with skin. Avoid Inhalation. Launder or discard contaminated clothing.

Storage Requirements: Keep in original or labeled container. Keep container closed and store in cool, dry place. Recommended storage temperature: 4°C / 40°F.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Engineering controls are normally not necessary. Use adequate local or mechanical ventilation to maintain good air quality and reduce vapor and mist levels below any applicable exposure limits.

Personal Protective Equipment: Observe proper laboratory procedure and workplace regulations. Respiratory protection normally not required. Work in a well ventilated area or laboratory hood and wear safety glasses and gloves when handling. Use glasses or goggles meeting standards of appropriate agencies such as ANSI, NIOSH (US) or EN 166 (EU). Inspect gloves prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Choose body protection equipment appropriate for possible exposure.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White	Odor:	Not Determined
Physical State:	Lyophilized powder	Molecular Formula:	Not Determined
Odor Threshold:	Not Determined	Solubility:	Not Determined
Specific Gravity or Density:	Not Determined	Percent Volatile:	Not Determined
Viscosity:	Not Applicable	Freezing or Melting Point:	Not Determined
Boiling Point:	Not Applicable	Flash Point:	Not Applicable
Partition Coefficient:	Not Determined	Octanol:	Not Determined
Vapor Pressure:	Not Applicable	Autoignition Temperature:	Not Determined
Potentia Hydrogenii:	Not Applicable	Upper Flammability Limit and Lower Flammability Limit:	Not Applicable
Evaporation Rate:	Not Applicable		
Decompression Temperature:	Not Determined		

10 STABILITY AND REACTIVITY

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Reactivity:	Stable under recommended use and storage conditions. Hydroscopic.
Chemical Stability:	Stable under recommended use and storage conditions. Hydroscopic.
Conditions to Avoid (incompatibility):	Strong oxidizing agents
Materials to Avoid (incompatibility):	None known
Hazardous Decomposition:	Hazardous decomposition products formed under fire conditions - Carbon oxides. Other decomposition products - no data available

11 TOXICOLOGICAL INFORMATION

Acute Toxicity - Product is non-hazardous and not expected to be harmful. No LD50 (oral, inhalation or dermal) data available.
Eye - May be irritating. Symptoms of eye irritation include pain, tearing, reddening and swelling.
Skin - May be irritating. Symptoms include rash and redness.
Inhalation - May be irritating. Symptoms of respiratory irritation include runny nose, sore throat, cough, chest discomfort, shortness of breath and reduced lung function.
Carcinogenicity - No data available. No components are found to be carcinogens by NTP, IARC or OSHA.
Reproductive toxicity - Not expected. No data available.
Teratogenicity - Not expected. No data available.
Specific target organ toxicity, single or repeat exposure - Not expected. No data available.

12 ECOLOGICAL INFORMATION

Data not available.

13 DISPOSAL CONSIDERATIONS

Dispose of in accordance with federal, state or provincial and local regulations.

14 TRANSPORT INFORMATION

Not regulated for ground, marine or air transport. No DOT, IMDG or IATA shipping name required.

15 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 311/312 Hazards** - None
- SARA 313 Components** - None above threshold reporting levels

State Regulations:

- Massachusetts Right to Know Components** - No components are subject to the Massachusetts Right to Know Act.
- California Prop 65 Components** - This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm.

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16**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.