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## Section 1: Information

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### 1. Product Identification

1.1. Name: Annexin V-FITC

1.2. Catalog Number

1.2.1. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-1, 100 µL

1.2.2. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-S, 50 µL

1.3. Supplier

Nexcelom Bioscience, LLC.

360 Merrimack St. Building 9

Lawrence, MA 01843

Phone Number: 1 (978) 327-5340

Hours of Operation: 9am-5pm EST

### 2. Recommended Use

2.1. Annexin V-FITC should only be used for research purposes to detect apoptosis in mammalian cells

2.2. Annexin V-FITC is not intended to be used as a human or animal diagnostic or as a therapeutic reagent, it is intended for research use only

2.3. Do not use Annexin V-FITC for any other uses

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## Section 2: Hazard Identification

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### 1. Hazard Classification

1.1. No hazard classification to report

1.2. No R-phrases to report

### 2. Label Elements

2.1. Signal Words: None

2.2. Hazard Statements: None

2.3. Precautionary Statements: None

2.4. Supplemental Hazard Statements: None

2.5. Pictograms:

2.5.1. None

2.6. Other Hazards Which Do Not Result in Classification

2.6.1. None of the components are considered to be persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1 % or higher

2.6.2. To our knowledge, the hazards of this material have not been thoroughly investigated, but we recommend the handling of all chemicals to be done with caution

Section 3: Composition and Information on Ingredients

1.1. Substances

Common Name	Molecular Formula and Weight	CAS Number/IUPAC Name	EC-Number	Impurities and Stabilizers	Percentage
Bovine Serum Albumin	-	-	-	-	0.2%
Sodium Azide	-	-	-	-	.09%
Phosphate Buffered Solution	-	-	-	-	99.7%

Section 4: First-aid Measures

1. Always remove contaminated personnel away from the hazardous area and to a safe area
2. Most Important Symptoms and Effects
  - 2.1. Inhalation: May cause respiratory tract irritation.
  - 2.2. Skin contact: May cause skin irritation. Symptoms may include redness, drying, defatting and cracking of the skin
  - 2.3. Eye contact: May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling
  - 2.4. Ingestion: may be harmful if swallowed. May cause stomach distress, nausea or vomiting
  - 2.5. See Section 11
3. Indication of Immediate Medical Attention or Necessary Special Treatment
  - 3.1. No information available
4. Medical Professionals
  - 4.1. If medical advice or attention is required, present them with this safety data sheet first
  - 4.2. Notes to Physician: Treat symptomatically
5. Inhalation
  - 5.1. If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.
  - 5.2. Seek medical advice or attention if necessary
6. Skin Contact
  - 6.1. Remove any contaminated clothing, and wash area with soap and plenty of water for 15 minutes
  - 6.2. Wash clothes before re-use
  - 6.3. Seek medical advice or attention if irritation persists
7. Eye Contamination

- 7.1. Flush open eyes for 15 minutes
- 7.2. If contacts are present, remove contacts after first 15-minute wash and flush for an additional 15 minutes
- 7.3. Seek medical advice or attention if irritation persists
8. Ingestion
  - 8.1. Do not induce vomiting
  - 8.2. Drink plenty of water
  - 8.3. Never give an unconscious person anything by mouth
  - 8.4. Seek medical advice or attention if irritation persists

#### Section 5: Fire-fighting Measures

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1. Suitable Extinguishing Media
  - 1.1. Treat for surrounding material
2. Not Suitable Extinguishing Media
  - 2.1. None to report
3. Specific Hazards Arising from the Chemical
  - 3.1. Products of combustion may include, and are not limited to: oxide of carbon.
4. Special Protective Actions for Fire-fighters
  - 4.1. Wear a self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes
  - 4.2. Keep upwind of fire
5. Further Information
  - 5.1. None to report

#### Section 6: Accidental Release Measures

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1. Personal Precautions
  - 1.1. Use proper personal protective equipment to clean up spills promptly
2. Protective Equipment
  - 2.1. Use standard personal protective equipment
3. Emergency Procedures
  - 3.1. See Section 5
4. Accidental Spills or Release of the Product
  - 4.1. Wear proper protective equipment while cleaning up spills
  - 4.2. Contact emergency personnel if required
5. Emergency Responders
  - 5.1. Personal Protective Equipment
    - 5.1.1. See Section 5
6. Environmental Precautions
  - 6.1. Do not let product enter drains
7. Methods and Materials for Containment and Cleaning
  - 7.1. Drains

- 7.1.1. Do not let product enter drains
- 7.2. Capping procedures
  - 7.2.1. No information available
- 7.3. Neutralization techniques
  - 7.3.1. No information available
- 7.4. Decontamination techniques
  - 7.4.1. No information available
- 7.5. Absorbent Materials
  - 7.5.1. Use inert absorbent materials (e.g. sand, vermiculite)
- 7.6. Cleaning Techniques
  - 7.6.1. Use inert absorbent materials (e.g. sand, vermiculite)
  - 7.6.2. For disposal see Section 13
- 7.7. Vacuuming Techniques
  - 7.7.1. No information available
- 7.8. Special Equipment
  - 7.8.1. No information available

## Section 7: Handling and Storage

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- 1. Safe Handling
  - 1.1. Avoid breathing vapors, mists, and gasses
  - 1.2. Avoid formation of dusts
  - 1.3. Avoid prolonged and repeated exposure
- 2. Incompatible Substances
  - 2.1. No information available
- 3. Operations and Conditions to Avoid
  - 3.1. Avoid long-term exposures to light
- 4. General Good Hygiene Practices
  - 4.1. No eating, drinking or smoking in work areas
  - 4.2. Wash hands after breaks and at the end of the work day
  - 4.3. Remove contaminated clothing and protective equipment before entering eating areas
- 5. Conditions for Safe Storage
  - 5.1. Store container tightly closed and in a dry, cool, and well-ventilated place
  - 5.2. Conditions to avoid
    - 5.2.1. Long term exposure to light
  - 5.3. Environmental Effects to avoid
    - 5.3.1. No information available
- 6. How to maintain product integrity
  - 6.1. No information available
- 7. Engineering Advice
  - 7.1. No information available

Section 8: Exposure Controls and Personal Protection

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1. Occupational Exposure Limits
  - 1.1. American Conference of Government Industrial Hygienists (ACGIH)- No information available
  - 1.2. Threshold Limit Values (TLV)- No Information available
2. Biological Limits
  - 2.1. No information available
3. Appropriate Engineering Controls
  - 3.1. Use adequate ventilation to keep exposures (airborne levels of dust, fume, vapor, etc) below recommended exposure limits
4. Exposure Controls
  - 4.1. Always use good occupational hygiene practices
    - 4.1.1. Do not eat, drink, or smoke while using this product
    - 4.1.2. Wash hands before breaks and at the end of the work day
    - 4.1.3. Regularly clean equipment, work area, and clothing
  - 4.2. Eye and face protection
    - 4.2.1. Follow safe laboratory practices
  - 4.3. Skin protection
    - 4.3.1. Follow safe laboratory practices
  - 4.4. Respiratory Protection
    - 4.4.1. Follow safe laboratory practices
  - 4.5. Thermal Hazards
    - 4.5.1. Follow safe laboratory practices
5. Special Equipment
  - 5.1. No information available

Section 9: Physical and Chemical Properties

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Property	Data
Physical State	Liquid
Color	Clear
Odor	No information available
Odor Threshold	No information available
Freezing Point	No information available
Melting Point	No information available
Boiling point or Initial Boiling Point/Range	No information available
Flammability	No flammable
Lower and Upper Explosion Limit/Flammability Limit	No information available
Flash Point	No information available
Auto-Ignition Temperature	No information available

Explosive Properties	No information available
Decomposition Temperature	No information available
Oxidizing Properties	No information available
pH	No information available
Viscosity	No information available
Solubility	No information available
Partition Coefficient n-octanol/water (Log value)	No information available
Vapor Pressure	No information available
Density and/or Relative Density	No information available
Relative Vapor Density	No information available
Particle Characteristics	No information available
Evaporation Rate	No information available
Surface Tension	No information available

Section 10: Stability and Reactivity

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1. Reactivity
  - 1.1. No information available
2. Chemical Stability
  - 2.1. Stable under recommended storage conditions
3. Possibility of Hazardous Reactions
  - 3.1. No dangerous reaction known under conditions of normal use
4. Conditions to avoid
  - 4.1. Heat
5. Incompatible Materials
  - 5.1. No information available
6. Hazardous Decomposition Products
  - 6.1. Formed under fire: oxide of carbon
  - 6.2. Other decomposition products: No information available

Section 11: Toxicological Information

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1. Acute Toxicity
  - 1.1. No information available
2. Skin Corrosion/Irritation
  - 2.1. No information available
3. Serious Eye Damage/Irritation
  - 3.1. No information available
4. Respiratory or Skin Sensitization
  - 4.1. No information available
5. Germ Cell Mutagenicity
  - 5.1. No information available
6. Carcinogenicity

- 6.1. IARC
  - 6.1.1. No information available
- 6.2. NTP
  - 6.2.1. No information available
- 6.3. OSHA
  - 6.3.1. No information available
- 7. Reproductive Toxicity
  - 7.1. No information available
- 8. Specific Target Organ Toxicity- Single Exposure
  - 8.1. No information available
- 9. Specific Target Organ Toxicity – Repeated Exposure
  - 9.1. No information available
- 10. Aspiration Hazard
  - 10.1. No information available
- 11. Likely Routes of Exposure
  - 11.1. Skin
  - 11.2. Eyes
- 12. Other Information
  - 12.1. Registry of Toxic Effects of Chemical Substances
    - 12.1.1. None to report

#### Section 12: Ecological Information

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- 1. Ecotoxicity: May cause long-lasting, harmful effects to aquatic life
  - 1.1. Fish
    - 1.1.1. No information available
  - 1.2. Crustaceans
    - 1.2.1. No information available
  - 1.3. Algae
    - 1.3.1. No information available
  - 1.4. Other Aquatic Plants
    - 1.4.1. No information available
  - 1.5. Soil Micro- and Macro-Organisms
    - 1.5.1. No information available
  - 1.6. Birds
    - 1.6.1. No information available
  - 1.7. Bees
    - 1.7.1. No information available
  - 1.8. Plants
    - 1.8.1. No information available
  - 1.9. Inhibition of Micro-Organisms
    - 1.9.1. No information available
  - 1.1. Impact on Sewage Treatment Plants

- 1.1.1. See Section 13
2. Persistence and Degradability
  - 2.1. No information available
3. Bioaccumulative Potential
  - 3.1. No information available
4. Mobility in Soil
  - 4.1. No information available
5. Other Adverse Effects
  - 5.1. Environmental Fate
    - 5.1.1. No information available
  - 5.2. Ozone Depletion Potential
    - 5.2.1. No information available
  - 5.3. Photochemical Ozone Creation Potential
    - 5.3.1. No information available
  - 5.4. Endocrine Disrupting Potential and/or Global Warming Potential
    - 5.4.1. No information available

#### Section 13: Disposal Considerations

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1. Disposal Methods
  - 1.1. Please take precautions to generate as little waste as possible while handling and using this product
  - 1.2. Do not dispose of contaminated materials in the sewage
  - 1.3. Packaging, containers, solutions and any material that may have come in contact with this product should be considered as hazardous as the product itself
  - 1.4. Disposal of this product and any of its by-products should be in compliance with all applicable local, regional and national/federal biological hazardous waste disposal regulations
2. Disposal Containers and methods
  - 2.1. See Section 6

#### Section 14: Transport Information

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1. DOT (US)
  - 1.1. NA-Number: No information available
  - 1.2. Class: No information available
  - 1.3. Packing Group: No information available
  - 1.4. Proper Shipping Name: No information available
  - 1.5. Reportable Quantity: No information available
  - 1.6. Poison Inhalation Hazard: No information available



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**Section 15: Regulatory Information**

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1. States with Right to Know Components
  - 1.1. State Right to Know Components
    - 1.1.1. No information available
2. No regulatory information to report (29 CFR 1910.1200(g)(2))

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**Section 16: Other Information**

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1. Literary references
  - 1.1. No information available

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**Revision Number: A**

1. First release

**END OF SDS**