Section 1: Information

1. Product Identification
   1.1. Name: Annexin V Binding Buffer
   1.2. Catalog Number
      1.2.1. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-1, 10 mL
      1.2.2. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-S, 5 mL
   1.3. Supplier
      Nexelom 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 Binding Buffer should only be used as an aqueous buffer solution containing HEPES, CaCl₂, and NaCl, PH 7.4.
   2.2. Annexin V Binding Buffer 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 Binding Buffer for any other uses

Section 2: Hazard Identification

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. No information available
Section 3: Composition and Information on Ingredients

### 1.1. Substances

<table>
<thead>
<tr>
<th>Common Name</th>
<th>Molecular Formula and Weight</th>
<th>CAS Number/IUPAC Name</th>
<th>EC-Number</th>
<th>Impurities and Stabilizers</th>
<th>Percentage</th>
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<tbody>
<tr>
<td>HEPES</td>
<td></td>
<td>7365-45-9</td>
<td>-</td>
<td>-</td>
<td>Proprietary</td>
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<tr>
<td>Calcium Chloride</td>
<td></td>
<td>10043-52-4</td>
<td>-</td>
<td>-</td>
<td>Proprietary</td>
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<tr>
<td>Sodium Chloride</td>
<td></td>
<td>7647-14-5</td>
<td>--</td>
<td>-</td>
<td>Proprietary</td>
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</tbody>
</table>

Section 4: First-aid Measures

1. Most Important Symptoms and Effects
   1.1. No information available
   1.2. See Section 11
2. Indication of Immediate Medical Attention or Necessary Special Treatment
   2.1. No information available
3. Medical Professionals
   3.1. If medical advice or attention is required, present them with this safety data sheet first
   3.2. Notes to Physician: Treat symptomatically
4. Inhalation
   4.1. No irritating effect known
5. Skin Contact
   5.1. No irritating effect known
6. Eye Contamination
   6.1. No irritating effect known
7. Ingestion
   7.1. Harmful if swallowed
   7.2. Do not induce vomiting
   7.3. Drink plenty of water
   7.4. Never give an unconscious person anything by mouth
   7.5. Seek medical advice or attention if irritation persists

Section 5: Fire-fighting Measures

1. Suitable Extinguishing Media
   1.1. Water
   1.2. Carbon dioxide
   1.3. Dry chemical powder
   1.4. Alcohol resistant foam
2. Not Suitable Extinguishing Media
   2.1. No information available

3. Specific Hazards Arising from the Chemical
   3.1. No information available

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

5. Further Information
   5.1. None to report

Section 6: Accidental Release Measures
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. Remove ignition sources and provide adequate ventilation
   4.3. Contact emergency personnel if required

5. Emergency Responders
   5.1. Personal Protective Equipment
       5.1.1. See Section 5

6. Environmental Precautions
   6.1. Prevent further leakage or spillage if safe to do so
   6.2. 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
   7.6. Cleaning Techniques
       7.6.1. Use inert absorbent materials
       7.6.2. For disposal see Section 13
   7.7. Vacuuming Techniques
Section 7: Handling and Storage
1. Safe Handling
   1.1. No information available
2. Incompatible Substances
   2.1. No information available
3. Operations and Conditions to Avoid
   3.1. No information available
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 at 4° C in well-sealed container, away from strong oxidizing agent
   5.2. Environmental Effects to avoid
   5.2.1. 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
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
   1.3. International Agency for Research on Cancer (IARC)- No component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible, or confirmed a human carcinogen by IARC
   1.4. National Toxicology Program (NTP)- No component of this product present at levels greater than or equal to 0.1 % is identified as a known or anticipated carcinogen by NTP
2. Biological Limits
   2.1. No information available
3. Appropriate Engineering Controls
   3.1. Follow general industrial hygiene practices
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

<table>
<thead>
<tr>
<th>Property</th>
<th>Data</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Color</td>
<td>Clear</td>
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<tr>
<td>Odor</td>
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</tr>
<tr>
<td>Odor Threshold</td>
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</tr>
<tr>
<td>Freezing Point</td>
<td>No information available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>No information available</td>
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<tr>
<td>Boiling point or Initial Boiling Point/Range</td>
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<tr>
<td>Flammability</td>
<td>No information available</td>
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<tr>
<td>Lower and Upper Explosion Limit/Flammability Limit</td>
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</tr>
<tr>
<td>Flash Point</td>
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<tr>
<td>Auto-Ignition Temperature</td>
<td>No information available</td>
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<tr>
<td>Explosive Properties</td>
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<tr>
<td>Decomposition Temperature</td>
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<tr>
<td>Oxidizing Properties</td>
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<tr>
<td>pH</td>
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<tr>
<td>Viscosity</td>
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<tr>
<td>Solubility</td>
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<tr>
<td>Partition Coefficient n-octanol/water (Log value)</td>
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<tr>
<td>Vapor Pressure</td>
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<td>Density and/or Relative Density</td>
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<tr>
<td>Relative Vapor Density</td>
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<tr>
<td>Particle Characteristics</td>
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</tbody>
</table>
Section 10: Stability and Reactivity

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 information available

4. Conditions to avoid
   4.1. No information available

5. Incompatible Materials
   5.1. No information available

6. Hazardous Decomposition Products
   6.1. Formed under fire: Toxic fumes
   6.2. Other decomposition products: No information available

Section 11: Toxicological Information

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 component of this product present at levels greater than or equal to 0.1 % is identified as probable, possible, or confirmed human carcinogen by IARC
   6.2. NTP
       6.2.1. No component of this product present at levels greater than or equal to 0.1 % is identified as known or anticipated carcinogen by NTP
   6.3. OSHA
       6.3.1. No component of this product present at levels greater than or equal to 0.1 % is identified as a carcinogen or potential carcinogen by OSHA

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
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
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
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

Section 15: Regulatory Information
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))

Section 16: Other Information
1. Literary references
   1.1. None to report
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1. First release

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