Section 1: Information

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

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. 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

<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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</table>

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
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
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
Section 7: Handling and Storage

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

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

<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>
<td>Odor Threshold</td>
<td>No information available</td>
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<tr>
<td>Freezing Point</td>
<td>No information available</td>
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<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>
<tr>
<td>Flammability</td>
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<tr>
<td>Lower and Upper Explosion Limit/Flammability Limit</td>
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<tr>
<td>Flash Point</td>
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</tr>
<tr>
<td>Auto-Ignition Temperature</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 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

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

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. No information available

Copyright 2018 Nexcelom Bioscience License: The above information is believed to be correct, but does not purport to be all inclusive, and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The SDS does not represent any guarantee of the properties of the product nor does it constitute a warranty for any particular purpose. Nexcelom Bioscience shall not be held liable for any damage resulting from handling or from contact with the above product.

Date Revised: 05/22/2019
Revision Number: A
1. First release

END OF SDS
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
      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 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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<td>-</td>
<td>Proprietary</td>
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</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>
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<tbody>
<tr>
<td>Physical State</td>
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<td>Odor</td>
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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
Copyright 2018 Nexcelom Bioscience License: The above information is believed to be correct, but does not purport to be all inclusive, and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The SDS does not represent any guarantee of the properties of the product nor does it constitute a warranty for any particular purpose. Nexcelom Bioscience shall not be held liable for any damage resulting from handling or contact with the above product.

Date Revised: 05/21/2019
Revision Number: A

1. First release

END OF SDS
Section 1: Information

1. Product Identification
   1.1. Name: Propidium Iodide (PI)
   1.2. Catalog Number:
       1.2.1. ViaStain™ PI Staining Solution, Cat. No.: CS1-0109-5mL, 5 mL
       1.2.2. ViaStain™ PI Staining Solution, Cat. No.: CS1-0109-1mL, 1 mL
       1.2.3. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-1, 250 µL
       1.2.4. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-2, 500 µL
       1.2.5. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-S, 50 µL
       1.2.6. ViaStain™ AnnexinV-FITC, Buffer and PI, Cat. No.: CS1-0116, 500 µL
       1.2.7. ViaStain™ AnnexinV-FITC, Buffer and PI, Cat. No.: CS1-0116-S, 25 µL
       1.2.8. ViaStain™ AnnexinV/PI Apoptosis Kit, Cat. No.: CSK-0117-S, 25 µL
       1.2.9. ViaStain™ Calcein-AM/PI Cell Vitality and Viability Kit,
            Cat. No: CSK-0118, 500 µL
       1.2.10. ViaStain™ Calcein-AM/PI Cell Vitality/Viability Kit,
              Cat. No.: CSK-0118-S, 25 µL
       1.2.11. ViaStain™ Calcein AM/Hoechst/PI Viability kit, Cat. No.: CSK-V0006-S, 40 µL
       1.2.12. ViaStain™ Calcein AM/Hoechst/PI Viability kit, Cat. No.: CSK-V0006-1, 200 µL
       1.2.13. Celigo Training Kit, Cat. No.: CELIGO_TK-01-0001, 800 µL
       1.2.14. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-1, 30 µL
       1.2.15. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-S, 30 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. Propidium Iodide should only be used as a nuclear staining reagent for
detecting the total number of dead cells
   2.2. Propidium Iodide 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 Propidium iodide for any other uses

Section 2: Hazard Identification

1. Hazard Classification
   1.1. Propidium Iodide
       1.1.1. H315 Skin irritation Category: 2
       1.1.2. H319 Eye irritation Category: 2
       1.1.3. H341 Germ cell mutagenicity Category: 2
1.1.4. H335 Specific target organ toxicity – single exposure Category: 3 – Respiratory system

1.2. Potassium chloride

1.2.1. H412 Toxic to aquatic life Category: Aquatic Acute – 3 Aquatic Chronic – 3

2. Label Elements

2.1. Signal Words: Warning

2.2. Hazard Statements: H315 Causes skin irritation H319 Causes serious eye irritation H335 May cause respiratory irritation H341 Suspected of causing genetic defects

2.3. Precautionary Statements: P201 Obtain special instructions before use P280 Wear eye protection/face protection P305 + P351 + P338 IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do, then continue rinsing. P308 + P313 IF exposed or concerned seek medical advice/attention P337 + P313 IF eye irritation persists seek medical advice/attention

2.4. Pictograms:

2.4.1.

2.5. Other Hazards Which Do Not Result in Classification

2.5.1. 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

2.5.2. 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

2.5.3. Hazardous Materials Identification System Classification

Health Hazard: 1
Chronic Health Hazard:* 0
Flammability: 0
Physical Hazard: 0

2.5.4. National Fire Protection Association Rating

Health Hazard: 1
Fire: 0
Reactivity Hazard: 0
Section 3: Composition and Information on Ingredients

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>
</tr>
</thead>
<tbody>
<tr>
<td>Propidium Iodide</td>
<td>C_{27}H_{34}I_{2}N_{4} (668.39 g/mol)</td>
<td>25535-16-4</td>
<td>247-081-0</td>
<td>-</td>
<td>0.1 % - 2 %</td>
</tr>
<tr>
<td>Phosphate buffered saline</td>
<td>Cl_{2}H_{3}K_{2}Na_{3}O_{8}P_{2} (411.029 g/mol)</td>
<td>7447-40-7</td>
<td>231-211-8</td>
<td>-</td>
<td>99.9 % - 98 %</td>
</tr>
</tbody>
</table>

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. No information available
   2.2. 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. Place person in fresh air and in a comfortable position for breathing
   5.2. Seek medical advice or attention
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
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
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
Section 5: Fire-fighting Measures

1. Suitable Extinguishing Media
   1.1. Carbon dioxide
   1.2. Dry chemical extinguishers
   1.3. Alcohol resistant foam extinguishers
   1.4. Water

2. Not Suitable Extinguishing Media
   2.1. No information available

3. Specific Hazards Arising from the Chemical
   3.1. Carbon oxides

4. Special Protective Actions for Fire-fighters
   4.1. Wear a self-contained breathing apparatus for firefighting if necessary

5. Further Information
   5.1. No information available

Section 6: Accidental Release Measures

1. Personal Precautions
   1.1. Use proper personal protective equipment
   1.2. Avoid dust formation
   1.3. Avoid breathing vapors, mists, or gases
   1.4. Ensure adequate ventilation
   1.5. Avoid breathing dust
   1.6. See Section 8

2. Protective Equipment
   2.1. Use proper 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. 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. Inert absorbent materials
7.6. Cleaning Techniques
  7.6.1. Contain spillage
  7.6.2. Soak up with inert absorbent material
  7.6.3. Keep in a suitable closed container
  7.6.4. 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

1. Safe Handling
   1.1. Avoid contact with skin and eyes
   1.2. Avoid formation of dusts and aerosols
2. Incompatible Substances
   2.1. No information available
3. Operations and Conditions to Avoid
   3.1. Avoid formation of dusts and aerosols
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. Conditions to avoid
      5.1.1. No information available
   5.2. Environmental Effects to avoid
      5.2.1. No information available
6. How to maintain product integrity
   6.1. Keep container tightly closed in a dry and well-ventilated place
   6.2. Keep in a dry place
7. Engineering Advice
   7.1. Provide appropriate exhaust ventilation at places where dusts can be formed
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 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. Do not let product enter drains

3. Appropriate Engineering Controls
   3.1. Handle with good industrial hygiene and safety practices
   3.2. Wash hands before breaks and at the end of the workday

4. Proper Personal Protective Equipment
   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. Use safety glasses with side-shields conforming to EN166 or equipment for eye protection tested and approved under appropriate government standards such as NIOSH (U.S.A.) or EN 166 (E.U.)
   4.3. Skin protection
      4.3.1. Wear impervious clothing and handle with gloves
      4.3.2. Gloves must be inspected prior to use
      4.3.3. Use proper removal technique (without touching glove’s outer surface) to avoid skin contact with this product
      4.3.4. Dispose of contaminated gloves after use in accordance with applicable laws (outlined in Section 13) and good laboratory practices
      4.3.5. Wash hands with soap and plenty of water after use
   4.4. Thermal Hazards
      4.4.1. No information available

5. Environmental Exposure Controls
   5.1. Do not let product enter drains

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>
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<tr>
<td>Color</td>
<td>Red/reddish orange</td>
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<tr>
<td>Property</td>
<td>Information Available</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Odor</td>
<td>No information available</td>
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<tr>
<td>Odor Threshold</td>
<td>No information available</td>
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<tr>
<td>Freezing Point</td>
<td>No information available</td>
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<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>
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<tr>
<td>Lower and Upper Explosion Limit/Flammability Limit</td>
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<tr>
<td>Flash Point</td>
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<tr>
<td>Auto-Ignition Temperature</td>
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<tr>
<td>Explosive Properties</td>
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<tr>
<td>Decomposition Temperature</td>
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<td>Oxidizing Properties</td>
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<tr>
<td>pH</td>
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<td>Viscosity</td>
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<td>Solubility</td>
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<td>Partition Coefficient n-octanol/water (Log value)</td>
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<tr>
<td>Vapor Pressure</td>
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<tr>
<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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<tr>
<td>Evaporation Rate</td>
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<tr>
<td>Surface Tension</td>
<td>No information available</td>
</tr>
</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. Heat, flames, and sparks
5. Incompatible Materials
   5.1. Strong oxidizing agents and strong acids
6. Hazardous Decomposition Products
   6.1. Formed under fire: Carbon oxides
   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. May cause irritation in susceptible people
3. Serious Eye Damage/Irritation
   3.1. May cause irritation in susceptible people
4. Respiratory or Skin Sensitization
   4.1. May cause irritation in susceptible people
5. Repeated Dose Toxicity
   5.1. No information available
6. Germ Cell Mutagenicity
   6.1. No information available
7. Carcinogenicity
   7.1. IARC
      7.1.1. 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
   7.2. NTP
      7.2.1. No component of this product present at levels greater than or equal to 0.1 % is identified as known or anticipated carcinogen by NTP
   7.3. OSHA
      7.3.1. 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
8. Reproductive Toxicity
   8.1. No information available
9. Specific Target Organ Toxicity- Single Exposure
   9.1. No information available
10. Specific Target Organ Toxicity – Repeated Exposure
   10.1. No information available
11. Aspiration Hazard
   11.1. No information available
12. Other Information
   12.1. Likely Routes of Exposure
      12.1.1. Skin
      12.1.2. Eyes
      12.1.3. Inhalation
   12.2. Registry of Toxic Effects of Chemical Substances
      12.2.1. None to report
   12.3. Liver irregularities – Based on human evidence

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

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. Massachusetts Right to Know Components
       1.1.1. Disodium hydrogenorthophosphate CAS-No. 7558-79-4
   1.2. Pennsylvania Right to Know Components
       1.2.1. Disodium hydrogenorthophosphate CAS-No. 7558-79-4
       1.2.2. Sodium chloride CAS-No. 7647-14-5
   1.3. New Jersey Right to Know Components
       1.3.1. Disodium hydrogenorthophosphate CAS-No. 7558-79-4
       1.3.2. Sodium chloride CAS-No. 7647-14-5
       1.3.3. Potassium chloride CAS-No. 7447-40-7
       1.3.4. Potassium dihydrogenorthophosphate CAS-No. 7778-77-0
   1.4. California Prop. 65 Components
       1.4.1. This product does not contain any chemicals known to the State of California to cause cancer, birth defects, or any other reproductive harm

2. No regulatory information to report (29 CFR 1910.1200(g)(2))

Section 16: Other Information

1. Literary references
   1.1. No information available

Copyright 2019 Nexcelom Bioscience License: The above information is believed to be correct, but does not purport to be all inclusive, and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The SDS does not represent any guarantee of the properties of the product nor does it constitute a warranty for any particular purpose. Nexcelom Bioscience shall not be held liable for any damage resulting from handling or from contact with the above product.

Date Revised: 05/22/2019
Revision Number: D
1. Removed CSK-V0001
2. Added CSK-V0007

END OF SDS
Section 1: Information

1. Product Identification
   1.1. Name: Hoechst 33342
   1.2. Catalog Number
       1.2.1. ViaStain™ Live Caspase 3/7 Detection for 2D/3D Culture with Hoechst, Cat. No.: CSK-V0003-1, 25uL
       1.2.2. ViaStain™ Live Caspase 3/7 Detection for 2D/3D Culture with Hoechst, Cat. No.: CSK-V0003-S, 10uL
       1.2.3. Hoechst 33342, Cat. No.: CS1-0128-5mL, 5mL
       1.2.4. Hoechst 33342, Cat. No.: CS1-0128-S, 20µL
       1.2.5. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-1, 50µL
       1.2.6. ViaStain™ Hoechst/PI Viability Kit, Cat. No.: CSK-V0005-S, 10µL
       1.2.7. ViaStain™ Calcein AM/Hoechst/PI Viability kit, Cat. No.: CSK-V0006-1, 40µL
       1.2.8. ViaStain™ Calcein AM/Hoechst/PI Viability kit, Cat. No.: CSK-V0006-S, 8µL
       1.2.9. Celigo Training Kit, Cat. No.: CELIGO_TK-01-0001, 60uL
       1.2.10. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-1, 6 µL
       1.2.11. ViaStain™ Celigo Annexin V-FITC Kit, Cat. No.: CSK-V0007-S, 6 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. Hoechst 33342 should only be used as a nuclear staining reagent for detecting the total number of cells
   2.2. Hoechst 33342 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 Hoechst 33342 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. 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

<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>
</tr>
</thead>
<tbody>
<tr>
<td>Hoechst 33342</td>
<td>C_{27}H_{28}N_{6}O (452.562 g/mol)</td>
<td>23491-52-3</td>
<td>245-691-1</td>
<td>-</td>
<td>0.1% - 2%</td>
</tr>
<tr>
<td>Water</td>
<td>H_{2}O (18.015 g/mol)</td>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>-</td>
<td>98% - 99.9%</td>
</tr>
</tbody>
</table>

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. No information available
   2.2. 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. Not anticipated as an inhalation risk if used under recommended conditions
   5.2. Place person in fresh air and in a comfortable position for breathing
   5.3. 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
1. Suitable Extinguishing Media
   1.1. Carbon dioxide
   1.2. Dry chemical extinguishers
   1.3. Appropriate foam extinguishers
   1.4. Water spray
2. Not Suitable Extinguishing Media
   2.1. None to report
3. Specific Hazards Arising from the Chemical
   3.1. Emits toxic fumes under fire conditions
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
       7.7.1. No information available
   7.8. Special Equipment
       7.8.1. No information available

Section 7: Handling and Storage

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
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>
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</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
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<tr>
<td>Color</td>
<td>Yellow</td>
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<tr>
<td>Odor</td>
<td>No information available</td>
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</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. May cause irritation in susceptible people
3. Serious Eye Damage/Irritation
  3.1. May cause irritation in susceptible people
4. Respiratory or Skin Sensitization
  4.1. No information available
5. Germ Cell Mutagenicity
  5.1. Potentially harmful
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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Date Revised: 05/22/2019
Revision Number: D
1. added CSK-V0007

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