

## Section 1: Information

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### 1. Product Identification

- 1.1. Name: DAPI
- 1.2. C.A.S. Number: 28718-90-3
- 1.3. Catalog Numbers
  - 1.3.1. ViaStain™ DAPI, Cat. No.: CS1-0127-2mL, 2mL
  - 1.3.2. ViaStain™ DAPI, Cat. No.: CS1-0127-S, 10µL
- 1.4. Supplier

Nexcelom Bioscience, LLC.  
360 Merrimack St., Building 9  
Lawrence, MA 01843  
Phone Number: 1 (978) 327-5340  
Hours of Operation: 9am-5pm EST

Nexcelom Bioscience, Ltd.  
Unit 5, Rutherford House  
Pencroft Way,  
Manchester Science Park  
Manchester. M15 6SZ. UK  
Phone Number: 0161-232-4592

- 1.5. Emergency Number: Please contact the appropriate local emergency response provider
- 1.6. R.E.A.C.H Registration Number: No registration number is given yet for the substance/substances in this mixture since the annual import quantity is less than the required one tonnage per annum

### 2. Recommended Use

- 2.1. DAPI should only be used as a stain for cell imaging
- 2.2. DAPI is not intended to be used as a human or animal diagnostic or therapeutic reagent
- 2.3. Do not use DAPI for any other uses

## Section 2: Hazard Identification

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### 1. Hazard Classification

- 1.1. No information available
- For the full text of H-Statements please reference Section 16

### 2. Label Elements

- 2.1. Signal Words: No information available
- 2.2. Hazard Statements
  - 2.2.1. No information available
- 2.3. Precautionary Statements:
  - 2.3.1. No information available
- 2.4. Pictograms:
  - 2.4.1. No information available
- 2.5. Other Hazards Which Do Not Result in Classification
  - 2.5.1. Avoid contact or inhalation

2.5.2. To the best of our knowledge, this product has not been thoroughly investigated as a hazardous substance. We recommend handling all chemicals with cautions

Section 3: Composition and Information on Ingredients

1. Substance: 4,6-Diamidino-2-phenylindole, dihydrochloride

1.1. Hazardous Component: No information available

1.2. Synonyms

1.2.1. DAPI

1.3. Hazardous component molecular formula: C<sub>16</sub>H<sub>15</sub>N<sub>5</sub>

1.4. Hazardous component molecular weight: 277.324 g/mol

Common Name	Classification	CAS Number /IUPAC Name	EC-Number	Index Number	M-Factor	Concentration
DAPI	N/A	28718-90-3	N/A	N/A	N/A	10 mM
Water	Not hazardous	7732-18-5	231-791-2	N/A	N/A	N/A

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. See general first aid measures below

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 affected 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 from the affected person, and wash the contaminated 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 symptoms occur

7. Eye Contamination

7.1. Flush open eyes for 15 minutes with water

- 7.2. If contacts are present, remove contacts after the 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

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

#### Section 6: Accidental Release Measures

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1. Personal Precautions
  - 1.1. Don appropriate personal protective equipment to prevent contamination of the eyes, skin, and clothing
  - 1.2. Use appropriate and safe cleaning methods to clean up spilled substance
2. Protective Equipment
  - 2.1. Don appropriate personal protective equipment as determined by individual institutions safety regulations
3. Emergency Procedures
  - 3.1. No information available
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
7. Methods and Materials for Containment and Cleaning
  - 7.1. Drains
    - 7.1.1. No information available
  - 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. No information available
  - 7.6. Cleaning Techniques
    - 7.6.1. Absorb spill onto an appropriate material
    - 7.6.2. Collect and dispose of all waste in accordance with appropriate local and national biohazardous waste regulations
  - 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. This product is potentially harmful
  - 1.2. Avoid prolonged or repeated exposure
  - 1.3. Avoid breathing vapors, mists, or gas
2. Incompatible Substances
  - 2.1. No information available
3. Operations and Conditions to Avoid
  - 3.1. Exposure 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. Keep container tightly closed
  - 5.2. Store container in a dry, cool, and well-ventilated place
  - 5.3. Protect from long-term exposure to light
  - 5.4. Conditions to avoid
    - 5.4.1. Prolonged exposure to light
  - 5.5. Environmental Effects to avoid

- 5.5.1. Direct sunlight
- 6. How to maintain product integrity
  - 6.1. Keep container tightly closed
  - 6.2. Store container in a dry, cool, and well-ventilated place
  - 6.3. Protect from long-term exposure to light
- 7. Engineering Advice
  - 7.1. Always follow general industrial hygiene practice

Section 8: Exposure Controls and Personal Protection

1. National Exposure Limits

1.1. Substance: DAPI

1.1.1.CAS No. 28718-90-3

Country	TWA (8-hour weighted average)		Short -Term Limits/Excursion Limits (STEL)		Biological Limit Value
	ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>	
Austria	-	-	-	-	-
Belgium	-	-	-	-	-
Bulgaria	-	-	-	-	-
Croatia	-	-	-	-	-
Cyprus	-	-	-	-	-
Czech Republic	-	-	-	-	-
Denmark	-	-	-	-	-
Estonia	-	-	-	-	-
Finland	-	-	-	-	-
France	-	-	-	-	-
Germany	-	-	-	-	-
Greece	-	-	-	-	-
Hungary	-	-	-	-	-
Ireland	-	-	-	-	-
Italy	-	-	-	-	-
Latvia	-	-	-	-	-
Lithuania	-	-	-	-	-
Luxembourg	-	-	-	-	-
Malta	-	-	-	-	-
Netherlands	-	-	-	-	-
Poland	-	-	-	-	-
Portugal	-	-	-	-	-
Romania	-	-	-	-	-
Slovakia	-	-	-	-	-
Slovenia	-	-	-	-	-
Spain	-	-	-	-	-
Sweden	-	-	-	-	-

United Kingdom	-	-	-	-	-
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2. Appropriate Engineering Controls
  - 2.1. Always follow general industrial hygiene practice
3. Exposure Controls
  - 3.1. Always use good occupational hygiene practices
    - 3.1.1. Do not eat, drink, or smoke while using this product
    - 3.1.2. Wash hands before breaks and at the end of the work day
    - 3.1.3. Regularly clean equipment, work area, and clothing
  - 3.2. Eye and face protection
    - 3.2.1. Wear appropriate eye and face protection
  - 3.3. Skin protection
    - 3.3.1. Wear appropriate gloves and inspect them for integrity
    - 3.3.2. Wear appropriate protective clothing in accordance with good laboratory safety practice
  - 3.4. Respiratory Protection
    - 3.4.1. No information available
  - 3.5. Thermal Hazards
    - 3.5.1. No information available
4. Environmental Exposure Controls
  - 4.1. Do not allow product to enter drains

Section 9: Physical and Chemical Properties

Property	Data
Physical State	No information available
Color	No information available
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 information available
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	Moderately soluble in water

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 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. 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. May cause irritation in susceptible individuals
3. Serious Eye Damage/Irritation
  - 3.1. May cause irritation in susceptible individuals
4. Respiratory or Skin Sensitization
  - 4.1. No information available
5. Repeated Dose Toxicity
  - 5.1. No information available
6. Germ Cell Mutagenicity
  - 6.1. Potentially harmful
7. Carcinogenicity
  - 7.1. Not listed by NTP, IARC, or 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. Likely Routes of Exposure
  - 12.1. No information available
- 13. Symptoms Related to Physical, Chemical, and Toxicological Characteristics
  - 13.1. No information available
- 14. Delayed and Immediate Effects
  - 14.1. Short Term Exposure
    - 14.1.1. No information available
  - 14.2. Long Term Exposure
    - 14.2.1. No information available
- 15. Interactive Effects
  - 15.1. No information available
- 16. Other Information
  - 16.1. No information available

## 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
  - 1.10. Impact on Sewage Treatment Plants
    - 1.10.1. Reference 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. Packaging, containers, solutions and any material that may have come in contact with this product should be considered as hazardous as the product itself
  - 1.3. 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

### Section 14: Transport Information

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1. European Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)
  - 1.1. Not a dangerous good
2. Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)
  - 2.1. Not a dangerous good
3. European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways (ADN)
  - 3.1. Not a dangerous good
4. UN Number: No information available
5. UN Proper Shipping Name: No information available
6. Transport Hazard Class: No information available
7. Packing Group: No information available
8. Environmental Hazards
  - 8.1. Do not allow product to enter drains
9. Special Precautions for the User
  - 9.1. No information available
10. Transport in bulk according to Annex II of MARPOL 73/78
  - 10.1. Not applicable

10.2. International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk (IBC Code): Not applicable

#### Section 15: Regulatory Information

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1. Safety Regulations/Legislations
  - 1.1. No information available
2. Health Regulations/Legislations
  - 2.1. No information available
3. Environmental Regulations/Legislations
  - 3.1. No information available
4. Chemical Safety Assessment
  - 4.1. To the best of our knowledge no chemical safety assessment has been carried out on this product

#### Section 16: Other Information

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1. Literary references
  - 1.1. No information available
  - 1.2. H statements according to Regulation (EC) No. 1272/2008
    - 1.2.1. No information available
2. Methods of Evaluation
  - 2.1. In accordance with Article 9 (2.) of Regulation (EC) No. 1272/2008
  - 2.2. In accordance with Article 8 (3. B) of Regulation (EC) No. 1272/2008
  - 2.3. In accordance with Annex 1 (1.1.1) of Regulation (EC) No. 1272/2008
  - 2.4. In accordance with Annex XI (1.2) of Regulation (EC) No. 1907/2006
3. Training Advice
  - 3.1. Handle this product using standard precautionary laboratory practices, with effective engineering conditions and while wearing the proper protective equipment described in this safety data sheet
  - 3.2. Only use this product for research purposes and never as a diagnostic tool

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1. Uprev'ed document to conform to Nexcelom SDS template

**END OF SDS**