

**Product Catalogue Number CL-012**

## Material Safety Data Sheet

### Fluorescence In Situ Hybridization Antifade 4',6-Diamidino-2-phenylindole (DAPI) Staining Solution

#### I. Product and Company Identification:

**Product Name:** 4',6-Diamidino-2-phenylindole (DAPI)

**Catalog Number:** HC-Series/ CL-012

**Company Name:** Wuhan HealthCare Biotechnology Co., Ltd.

**Address:** Building #8, Optics Valley Precision Medicine Industry Base Phase 1,  
#9 Gaokeyuan 3<sup>rd</sup> Road, East Lake High-Tech Zone. 430206, Wuhan, Hubei, China.

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#### II. Hazard Identification:

This material is not considered hazardous according to the OSHA Hazard Communication Standard (29 CFR 1910.1200) and EC-Directives 67/548/EEC or 1999/45/EC.

#### III. Composition/Information on Ingredients:

**Form:** Liquid

**Synonyms:** 2'-(4-Amidinophenyl)-6-indolecarbamidinedihydrochloride

4',6-Diamidino-2-phenylindole dihydrochloride

DAPI dihydrochloride

**Formula:** C<sub>16</sub>H<sub>15</sub>N<sub>5</sub>·2HCl

**Molecular Weight:** 350.25 g/mol

**Ingredient Name:** DAPI

**CAS#:** 28718-90-3

**EC-No.:** 249-186-7

**Concentration:** >99%

#### IV. First Aid Measures:

**Inhalation:** Remove to fresh air. If breathing is difficult, get medical attention.

**Ingestion:** If person is conscious, wash out mouth with water.

**Skin Exposure:** Wash skin with soap and water.

**Eye exposure:** Immediately flush eyes water for at least 15 minutes. Get medical attention.

#### V. Fire Fighting Measures:

**Fire extinguishing media:** No restriction. Water spray, dry chemical, alcohol foam, or carbon dioxide.

**Firefighting:** Wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

#### VI. Accidental Release Measures:

Avoid dust formation. Avoid breathing dust. Sweep up and keep in a suitable closed containers for disposal. Do not let product enter drains.

#### VII. Handling and Storage:

**Handling:** Avoid contact with eyes, skin, and clothing, wash thoroughly after handling.

**Storage:** Store at 2°C – 8°C in tightly closed container. Light Sensitive.

#### VIII. Exposure Controls/Personal:

**Ventilation System:** A system of local and/or general exhaust is recommended.

**Skin Protection:** Wear compatible chemical resistant gloves and protective clothing.

**Eye Protection:** Wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

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#### IX. Physical and Chemical Properties:

**Form:** Liquid

**Color:** Purple (Blue under fluorescence microscope)

**pH:** 4.0-5.0 at 10 g/L at 20°C

**Boiling Point:** Data not available

**Melting Point:** Data not available

**Flash Point:** Data not available

**Auto-ignition Temperature:** Data not available

**Solubility (Water):** Data not available

#### X. Stability and Reactivity:

**Stability:** Stable under recommended storage conditions. Sensitive to light.

**Materials to avoid:** Strong oxidizing agents.

**Hazardous Decomposition:** May lead to carbon oxides, nitrogen oxides.

**Thermal decomposition:** >330°C

#### XI. Toxicological Information:

To the best of our knowledge, the chemical, physical, and toxicological properties of this buffer solution have not been thoroughly investigated.

**Acute Toxicity:** No data available.

**Skin corrosion/irritation:** No data available.

**Respiratory or skin sensitization:** No data available.

**Chronic exposure:** No data available.

**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.

#### XII. Ecological Information:

**Toxicity:** No data available.

**Persistence and Degradability:** No data available.

**Bio-accumulative Potential:** No data available.

**Mobility in Soil:** No data available.

**PBT and vPvB Assessment:** No data available.

**Other Adverse Effects:** No data available.

#### XIII. Disposal Considerations:

Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

#### XIV. Transport Information:

**D.O.T.** Not dangerous goods.

**ADR/RID** Not dangerous goods. **IMDG** Not dangerous goods.

**IATA:** Not dangerous goods.

#### XV. Regulatory Information:

##### United States

OSHA: No known hazards.

TSCA 8(b) Inventory: No products were found.

SARA302/304/311/312: No products were found.

SARA302/304: No products were found.

SARA322/312: No products were found.

Clean Water Act (CWA) 307/311: No products were found.

Clean Air Act (CAA) 112: No products were found.

State Regulations: No products were found.

##### Canada

WHMIS: No products were found.

##### Mexico

Classification: No products were found.

### EU regulations

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### XVI. Other Information:

This product is not intended for use in humans. To the best of our knowledge, this document is accurate. It is intended to serve as a guide for safe use of this product in a laboratory setting by experienced personnel. The burden of safe use of this material rests entirely with the user. The above information is believed to be accurate but is not necessarily all-inclusive and shall be used only as a guide. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product.



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