

Safety Data Sheet

DAPI (Hydrochloride)

EFFECTIVE DATE: 2015-05-05

1 Product and Company Identification

- 1.1 Product Name:** DAPI (Hydrochloride)
- 1.2 Product Identifier:** 2-(4-carbamimidoylphenyl)-1H-indole-6-carboximidamide, dihydrochloride
- 1.3 Catalog Number:** 75004
- 1.4 Product Use:** Laboratory Chemical
- 1.5 Manufacturer/Supplier:** STEMCELL Technologies
Suite 500-1618 Station Street
Vancouver, British Columbia V6A 1B6 Canada
- 1.6 In Case of Emergency Call:** 1-800-667-0322

2 Hazards Identification

2.1 Classification of the substance or mixture

Skin Corrosion/Irritation, Category 2

Skin Sensitization, Category 1

Specific Target Organ Toxicity (single exposure), Category 3

2.2 Label elements

Pictogram



Signal word Warning

Hazard statement(s)

H315 Causes skin irritation.

H317 May cause an allergic skin reaction

H335 May cause respiratory irritation.

Precautionary statement(s)

P264 Wash {hands} thoroughly after handling.

P280 Wear {protective gloves/protective clothing/eye protection/face protection}.

P362 Take off contaminated clothing and wash it before reuse.

P261 Avoid breathing {dust/fume/gas/mist/vapours/spray}.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+352 IF ON SKIN: Wash with plenty of soap and water.

P332+313 If skin irritation occurs, get medical advice/attention.

P333+313 If skin irritation or rash occurs, get medical advice/attention.

P312 Call a POISON CENTER or doctor/physician if you feel unwell.

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

Safety Data Sheet**DAPI (Hydrochloride)****EFFECTIVE DATE: 2015-05-05****2.3 Other hazards** No data available**3 Composition / Information on Ingredients****3.1 Substances****Synonyms**

2-(4-Amidinophenyl)-1H-indole-6-carboximidine, dihydrochloride; 4',6-Diamidino-2-phenylindole dihydrochloride; DAPI; DAPI dihydrochloride

Molecular formula C₁₆H₁₅N₅ · 2HCl**Molecular weight** 350.3

Hazardous Components (Chemical Name)	CAS #	Concentration	EC #
2-(4-carbamimidoylphenyl)-1H-indole-6-carboximidamide, dihydrochloride	28718-90-3	100%	249-186-7

4 First Aid Measures**4.1 Description of first aid measures****4.1.1 If inhaled**

Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.

4.1.2 In case of skin contact

Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminated clothing. Get medical attention if symptoms occur. Wash clothing before reuse.

4.1.3 In case of eye contact

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examined and tested by medical personnel.

4.1.4 If swallowed

Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed

The toxicological properties of this product have not been fully evaluated.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

5 Fire Fighting Measures**5.1 Extinguishing Media****5.1.1 Suitable Extinguishing Media**

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray.

Use water spray to cool fire-exposed containers.

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5.1.2 Unsuitable Extinguishing Media

A solid water stream may be inefficient.

5.2 Special hazards arising from the substance or mixture

5.2.1 Flammable Properties and Hazards

No data available

5.2.2 Flash Pt

No data available

5.2.3 Autoignition Pt

No data available

5.2.4 Explosive Limits

LEL: No data available

UEL: No data available

5.2.5 Hazardous Combustion Products

No data available

5.3 Fire Fighting Instructions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid raising and breathing dust, and provide adequate ventilation.

As conditions warrant, wear a NIOSH approved (or equivalent) self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves).

6.2 Environmental precautions

Take steps to avoid release into the environment, if safe to do so.

6.3 Methods and materials for containment and cleaning up

Contain spill and collect, as appropriate.

Transfer to a chemical waste container for disposal in accordance with local regulations.

7 Handling and Storage

7.1 Precautions for safe handling

Avoid breathing dust/fume/gas/mist/vapours/spray.

Avoid prolonged or repeated exposure.

7.2 Conditions for safe storage

Keep container tightly closed.

Store in accordance with information listed on the product insert.

8 Exposure Controls/Personal Protection

8.1 Exposure limits

75004-SDS_GHS

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Component	CAS #	Value	Control parameters
2-(4-carbamimidoylphenyl)-1H-indole-6-carboximidamide, dihydrochloride	28718-90-3	No data available	No data available

8.2 Engineering controls

Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.

8.3 Personal protective equipment

8.3.1 Eye/face protection

Safety glasses

8.3.2 Skin protection

Compatible chemical-resistant gloves
 Lab coat

8.3.3 Respiratory protection

NIOSH (US) or CEN (EU) approved respirator, as conditions warrant.

8.3.4 General hygiene considerations

Do not take internally.
 Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
 Wash thoroughly after handling.

8.3.5 Environmental exposure controls

No data available

9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	A crystalline solid
Odour	No data available
Odour threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Boiling point/boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Solubility	~0.2 mg/mL in EtOH & DMF; ~14 mg/mL in DMSO
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available

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Decomposition temperature	No data available
Viscosity	No data available

10 Stability and Reactivity

10.1 Reactivity	No data available
10.2 Chemical stability	Stable
10.3 Possibility of hazardous reactions	No data available
10.4 Conditions to avoid	No data available
10.5 Incompatible materials	No data available
10.6 Hazardous decomposition products	No data available

11 Toxicological Information**11.1 Acute toxicity**

Oral:	No data available
Inhalation:	No data available
Dermal:	No data available
Other:	No data available

11.2 Skin corrosion/irritation

No data available

11.3 Serious eye damage/eye irritation

No data available

11.4 Respiratory and/or skin sensitization

No data available

11.5 Germ cell mutagenicity

No data available

11.6 Carcinogenicity

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.
ACGIH:	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
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.
OSHA:	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.

11.7 Reproductive toxicity

No data available

11.8 Specific target organ toxicity - single exposure

No data available

11.9 Specific target organ toxicity - repeated exposure

No data available

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11.10 Aspiration hazard

No data available

11.11 Potential health effects

Inhalation: Material may be irritating to the mucous membranes and upper respiratory tract. May be harmful by inhalation. May cause respiratory system irritation.

Ingestion: May be harmful by ingestion.

Skin: Causes skin irritation. May be harmful by skin absorption. May cause an allergic skin reaction.

Eyes: May cause eye irritation.

11.12 Signs and symptoms of exposure

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

11.13 RTECS # N/A

12 Ecological Information

12.1 Toxicity

Avoid release into the environment.
Runoff from fire control or dilution water may cause pollution.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

No data available

13 Disposal Considerations

13.1 Waste disposal method

Dispose in accordance with local, provincial/state, and federal regulations.

13.2 Contaminated packaging

Dispose of as unused product.

14 Transport Information

14.1 UN number

No data available

14.2 UN proper shipping name

DOT Not dangerous goods
ADR/RID Not dangerous goods
IMDG Not dangerous goods
IATA Not dangerous goods

14.3 Transport hazard class(es)

No data available

14.4 Packing group

No data available

14.5 Environmental hazards

No data available

14.6 Special precautions

No data available

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15 Regulatory Information

15.1 US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)
2-(4-carbamimidoylphenyl)-1H-indole-6-carboximidamide, dihydrochloride	28718-90-3	No	No	No

15.2 Other US EPA or State Lists

Hazardous Components (Chemical Name)	CAS #	CAA HAP, ODC	CWA NPDES	TSCA	CA PROP.65
2-(4-carbamimidoylphenyl)-1H-indole-6-carboximidamide, dihydrochloride	28718-90-3	No	No	No	No

15.3 EU

This SDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.

15.4 Canada

Not WHMIS controlled

This SDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

16 Other Information

16.1 Prepared by: Quality Control, STEMCELL Technologies Inc.

16.2 Revision: N/A

16.3 Notice: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product. The information contained in this Safety Data Sheet (SDS) is current as of the Effective Date shown in this document and may be subject to amendment by STEMCELL Technologies Inc.

16.4 Disclaimer: **THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.**