



75004 - DAPI (Hydrochloride)

Revision Date 21-May-2021 Revision Number 2.1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product NameDAPI (Hydrochloride)Other means of identificationTotalog NumberCatalog Number75004Document NumberDX21257Synonyms2-(4-Amidinophenyl)-1H-indole-6-carboxamidine, dihydrochloride; 4/6-Diamidino-2-phenylindoledihydrochloride; DAPI (DAPI (DAPI)		
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Manufacturer/SupplierSTEMCELL Technologies Canada Inc.Suite 500 - 1618 Station StreetVancouver, British Columbia V6A 1B6 CanadaEmergency telephone numberEmergency Telephone1-800-667-0322		
2. HAZARDS IDENTIFICATION		
Classification This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) Skin corrosion/irritation Category 2 Skin sensitization Category 1 Specific target organ toxicity (single exposure) Category 3 Hazards not otherwise classified (HNOC) Not applicable		

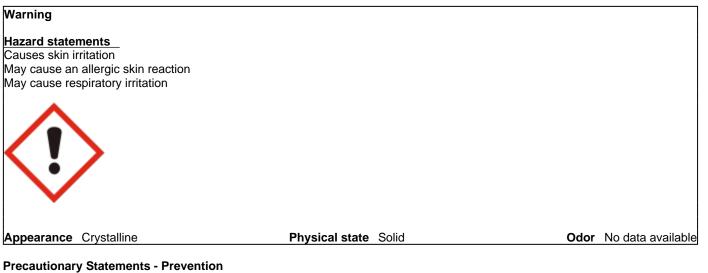
Label elements





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Wash face, hands and any exposed skin thoroughly after handling Contaminated work clothing must not be allowed out of the workplace Wear protective gloves Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area

Take off contaminated clothing and wash it before reuse IF ON SKIN: Wash with plenty of water and soap If skin irritation or rash occurs: Get medical advice/attention IF INHALED: Remove person to fresh air and keep comfortable for breathing Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Information

Not applicable

Unknown acute toxicity

- 100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)
- 100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)

100 % of the mixture consists of ingredient(s) of unknown toxicity





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3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Synonyms

2-(4-Amidinophenyl)-1H-indole-6-carboxamidine, dihydrochloride;. 4',6-Diamidino-2-phenylindoledihydrochloride;. DAPI;. DAPI dihydrochloride.

Chemical name	CAS No.	Weight-%
2-(4-carbamimidoylphenyl)-1H-indole-6-carboximid	28718-90-3	100
amide, dihydrochloride		

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES	
Description of first aid measures	
General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	IF exposed or concerned: Get medical advice/attention. Remove to fresh air. Get medical attention immediately if symptoms occur.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Skin contact	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a physician. Wash off immediately with soap and plenty of water for at least 15 minutes.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).
Most important symptoms and eff	ects, both acute and delayed
Symptoms	Itching. Rashes. Hives.
Indication of any immediate medical attention and special treatment needed	
Note to physicians	May cause sensitization in susceptible persons. Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

edia Use extinguishing measures that are appropriate to local circumstances and the





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	surrounding environment.
Unsuitable extinguishing media	CAUTION: Use of water spray when fighting fire may be inefficient.
Specific hazards arising from the chemical	Product is or contains a sensitizer. May cause sensitization by skin contact.
Explosion data Sensitivity to Mechanical Impac Sensitivity to Static Discharge	t None. None.
Special protective equipment for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions	Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.	
Other Information	Refer to protective measures listed in Sections 7 and 8.	
Environmental precautions		
Environmental precautions	Prevent further leakage or spillage if safe to do so.	
Methods and material for containment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so.	
Methods for cleaning up	Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment.





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Storage Conditions

Store in accordance with information listed on the Product Information Sheet (PIS).

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters		
Exposure Limits	The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.	
Appropriate engineering controls		
Engineering controls	Showers Eyewash stations Ventilation systems.	
Individual protection measures, such as personal protective equipment		
Eye/face protection	Wear safety glasses with side shields (or goggles).	
Hand protection	Wear suitable gloves. Impervious gloves.	
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.	
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.	
General hygiene considerations	Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties		
Physical state	Solid	
Appearance	Crystalline	
Color	No information available	





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SAFETY DATA SHEET

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No data available Odor Odor threshold No data available Property Values Remarks • Method No data available pН None known Melting point / freezing point No data available None known Boiling point / boiling range No data available None known Flash point No data available None known No data available **Evaporation rate** None known Flammability (solid, gas) No data available None known Flammability Limit in Air None known Upper flammability limit: No data available Lower flammability limit: No data available None known Vapor pressure No data available Vapor density No data available None known **Relative density** No data available None known Water solubility No data available None known Solubility in other solvents ~0.2 mg/mL in EtOH & DMF; ~3 None known ma/mL in DMSO: Partition coefficient No data available None known Autoignition temperature No data available None known No data available **Decomposition temperature** None known No data available Kinematic viscosity None known Dynamic viscosity No data available None known **Explosive properties** No data available No information available **Oxidizing properties** Other Information Softening point No information available Molecular weight 350.3 g/mol Molecular formula C16H15N5 • 2HCI VOC Content (%) No information available Liquid Density No information available **Bulk density** No information available **10. STABILITY AND REACTIVITY** Reactivity No information available.

Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products Carbon oxides. Hydrogen chloride. Nitrogen oxides (NOx).





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	11. TOXICOLOGICAL INFORMATION	
Information on likely routes of expo	sure	
Product Information		
Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.	
Eye contact	Specific test data for the substance or mixture is not available. Irritating to eyes. (based on components).	
Skin contact	May cause sensitization by skin contact. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).	
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Symptoms related to the physical, chemical and toxicological characteristics		
Symptoms	Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.	
Numerical measures of toxicity		
Acute toxicity		
Unknown acute toxicity100 % of the mixture consists of ingredient(s) of unknown toxicity100 % of the mixture consists of ingredient(s) of unknown acute oral toxicity100 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)100 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)Product Information		
Delayed and immediate effects as well as chronic effects from short and long-term exposure		
Skin corrosion/irritation Product Information	Classification based on data available for ingredients. Irritating to skin.	
Serious eye damage/eye irritation Product Information	No information available.	

Respiratory or skin sensitization May cause sensitization by skin contact.





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Product Information		
Germ cell mutagenicity	No information available.	
Product Information		
Carcinogenicity	No information available.	
Reproductive toxicity	No information available.	
	Product Information	
	May aquaa raaniratary irritation	
STOT - single exposure	May cause respiratory irritation. Product Information	
STOT - repeated exposure	No information available.	
	Product Information	
Aspiration hazard	No information available.	
RTECS #	NL5995054	
12. ECOLOGICAL INFORMATION		
Ecotoxicity	The environmental impact of this product has not been fully investigated.	
	Product Information	
Persistence and degradability	No information available.	
Discoursulation	There is no dote for this product	
Bioaccumulation	There is no data for this product.	
Other adverse effects	No information available.	

13. DISPOSAL CONSIDERATIONS

Waste treatment methods Waste from residues/unused products Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. Contaminated packaging Do not reuse empty containers.





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14. TRANSPORT INFORMATION

DOT	Not regulated
TDG	Not regulated
<u>MEX</u>	Not regulated
ICAO (air)	Not regulated
IATA	Not regulated
IMDG_	Not regulated
RID	Not regulated
ADR	Not regulated
ADN	Not regulated

15. REGULATORY INFORMATION

International Inventories	
TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

<u>SARA 313</u>

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.





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SARA 311/312 Hazard Categories	
Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

<u>California Proposition 65</u> This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

US State Regulations This product does not contain any substances regulated by state right-to-know regulations

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

Prepared By,

Quality Control. STEMCELL Technologies Canada Inc.

Revision Date 21-May-2021

Revision Note No information available.

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other





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materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any damage resulting from handling or from contact with the product.

End of Safety Data Sheet