

# Material Safety Data Sheet

according to Regulation (EC) No. 1907/2006/EG,  
Article 31



GENAXXON  
b i o s c i e n c e

Product number : M3176

Product name : DAPI, molecular biology grade

## 1. Identification of the substance/preparation and of the company

### Product identifier

**Product Name:** DAPI, molecular biology grade

**Catalogue-No.:** M3176

**CAS Number:** 28718-90-3

**EC Number:** 249-186-7

**REACH Registration Number:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

### Application of the substance/the preparation

Laboratory chemical

Biochemistry

### Details of the supplier of the safety data sheet

#### Manufacturer /Supplier:

Genaxxon bioscience GmbH, Söflinger Str. 70, 89077 Ulm/Germany.

Tel.: +49 (0)731 3608 123, info@genaxxon.com

**Further information available from:** General Management

**Emergency telephone number:** +49 (0)731 3608 123 (Monday till Friday: 7:30 – 18:30 o'clock)

**NOTE:** If this product is a kit or supplied with more than one material, please refer to the MSDS for each component for hazard information.

### Product Use:

This products are for laboratory research use only and are not intended for human or animal diagnostics, therapeutics or other clinical uses.

## 2. Hazardous identification

### Classification of the substance or mixture

#### Classification according to Regulation (EC) No 1272/2008

The substance is not classified according to the CLP regulations.

### Label elements

**Labelling according to Regulation (EC) No 1272/2008:** Void

**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

### Other hazards

### Result of PBT and vPvB assessment

**PBT:** not applicable

**vPvB:** not applicable

## 3. Composition/information on ingredients

### Chemical characterisation: Substances

CAS-No.: Description

28718-90-3 2-phenylindole-4',6-dicarboxamidinedihydrochloride (hydrate)

Identification number(s)

EC-number: 249-186-7

## 4. First-aid measures

### Description of first aid measures

**General information:** No special measures required.

**After inhalation:** Supply fresh air. Consult doctor in case of complaints.

If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.

**After skin contact:**

Immediately wash with water and rinse thoroughly.

If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

Seek medical treatment.

**After swallowing:**

Rinse out mouth.

Seek medical treatment.

**Information for doctor:**

**Most important symptoms and effects, both acute and delayed:** No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

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## 5. Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

Carbon Dioxide (CO<sub>2</sub>). Dry chemical powder, or appropriate foam. Fight larger fires with water spray or alcohol resistant foam.

#### Special hazards arising from the substance or mixture:

Ambient fire may liberate hazardous vapours.

In case of a fire, the following can be released:

Carbon oxides (CO, CO<sub>2</sub>)

Nitrogen oxides (NO<sub>x</sub>)

Hydrogen chloride (HCl)

Phosgene gas

Non-combustible

#### Advice for fire fighters:

#### Protective equipment:

Wear self-contained respiratory protective device.

#### Additional information:

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

Contain escaping vapours with water.

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Avoid formation of dust.

Do not inhale dust.

Ensure adequate ventilation.

Use respiratory protective device against the effects of fumes/dust/aerosol.

**Environmental precautions:** No special measures required.

### Methods and materials for containment and cleaning up:

Pick-up mechanically.

Avoid generation of dust.

Ensure adequate ventilation.

Clean up affected area.

### Reference to other sections

No dangerous substances are released.

**Additional information:** None

## 7. Handling and storage

### Precautions for safe handling:

No special precautions are necessary if used correctly.

Ensure good ventilation/exhaustion at the workplace.

**Information about fire – and explosion protection:** The product is not flammable.

### Conditions for safe storage, including any incompatibilities

#### Storage:

**Requirements to be met by storerooms and receptacles:** Keep receptacles tightly sealed.

**Information about storage in a common storage facility:** Store only in the original receptacle.

#### Further information about storage conditions:

Keep container tightly sealed.

Protect from exposure to the light.

Store in dry conditions in well closed respectable.

**Recommended storage temperature:** +2°C - +8°C

**Storage class:** 13

**Specific end use(s):** No further relevant information available.

## 8. Exposure controls / personal protection

**Additional information about design of technical facilities:** No further data; see item 7 of this data sheet.

### Control parameters

**Ingredients with limit values that require monitoring at the workplace:** Not required.

**Additional information:** The lists valid during the making were used as basis.

### Exposure controls:

#### Personal protective equipment:

#### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

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Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Avoid contact with eyes and skin.

Store protective clothing separately.

Immediately remove all soiled and contaminated clothing.

**Respiratory protection:** Respiratory protection required when vapours/aerosols are generated. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Filter P3 (EN 143).



Required when dusts are generated

## Protection of hands:



Protective gloves (EN 374)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### For the permanent contact gloves made of the following materials are suitable:

Nitril rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

Value for permeation: Level:  $>480$  min.

### As protection from splashes gloves made of the following materials are suitable:

Nitril rubber, NBR

Recommended thickness of the material:  $\geq 0.11$  mm

Value for the permeation: Level  $\geq 480$  min.

**Eye/face protection:** Safety glasses.



Safety glasses (EN 166)

## Body protection:

Use protective suit.

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled.

## 9. Physical and chemical properties

### Information on basic physical and chemical properties

#### General Information

##### Appearance

Form:	Powder
Colour:	various colours
Odour:	Not determined
Odour threshold:	Not determined

pH value at 20°C: Not determined

#### Change in conditions

Melting point/Melting range:	about 330°C
Boiling point/Boiling range:	Not determined

Flash point: Not applicable

Flammability (solid, gaseous): Product is not flammable

Ignition temperature: Not applicable

Decomposition temperature: Not determined

Self-ignition: Not applicable

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**Danger of explosion:** Product does not present an explosion hazard.

**Explosion limits:**

**Lower:** Not applicable

**Upper:** Not applicable

**Density (20°C):** Not determined

**Relative density** Not determined

**Vapour density** Not determined

**Evaporation rate** Not determined

**Solubility in / Miscibility with (water):** Soluble

**Viscosity:**

**Dynamic:** Not determined

**Kinematic:** Not determined

**Solvent content:**

**Organic solvents:** 0.0%

**VOC (EC)** 0.00%

**Information with regard to physical hazard classes**

Explosives Void

Flammable gases Void ·

Aerosols Void

Oxidising gases Void ·

Gases under pressure Void ·

Flammable liquids Void ·

Flammable solids Void ·

Self-reactive substances and mixtures Void ·

Pyrophoric liquids Void ·

Pyrophoric solids Void ·

Self-heating substances and mixtures Void

Substances and mixtures, which emit

flammable gases in contact with water Void ·

Oxidising liquids Void ·

Oxidising solids Void ·

Organic peroxides Void ·

Corrosive to metals Void ·

Desensitised explosives Void

**Other information:** No further relevant information available.

## 10. Stability and reactivity

**Reactivity:** No further relevant information available.

**Chemical stability**

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** In the event of fire: See chapter 5 of this data sheet.

## 11. Toxicological information

### Information on toxicological effects

**Acute toxicity:**

#### LD50/LC50 values relevant for classification

Quantitative data on the toxicological effect of this product are not available.

#### Primary irritant effect

**skin corrosion/irritation:** Based on available data, the classification criteria are not met.

**Serious eye damage/irritation:** Based on available data, the classification criteria are not met.

**After inhalation:** No irritating effect.

**Respiratory or skin sensitization:** Based on available data, the classification criteria are not met.

#### CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

**Germ cell mutagenicity:** Based on available data, the classification criteria are not met.

**Carcinogenicity:** Based on available data, the classification criteria are not met.

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**Reproductive toxicity:** Based on available data, the classification criteria are not met.

**STOT-single exposure:** Based on available data, the classification criteria are not met.

**STOT-repeated exposure:** Based on available data, the classification criteria are not met.

**Aspiration hazard:** Based on available data, the classification criteria are not met.

## Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The product should be handled with the care usual when dealing with chemicals.

The substance is not subject to classification according to the latest version of the EU lists.

## 12. Ecological Information

### Toxicity

**Aquatic toxicity:** Quantitative data on the ecological effect of the product are not available.

**Persistence and degradability:** No further relevant information available..

### Behaviour in environmental systems

**Bioaccumulative potential:** No further relevant information available.

**Mobility in soil:** No further relevant information available.

### Additional ecological information

**General notes:** Generally not hazardous for water.

### Results of PBT and vPvB assessment

**PBT:** Not applicable

**vPvB:** Not applicable

**Other adverse effects:** No further relevant information available.

## 13. Disposal considerations

### Waste treatment methods

#### Recommendation:

Chemicals must be disposed of in compliance with the respective national regulations. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Contact a licensed professional waste disposal service to dispose of this material. Observe all federal, state, and local environmental regulations.

#### Uncleaned packaging:

**Recommendation:** Disposal must be made according to official regulations. Packagings that may not be cleansed are to be disposed of in the same manner as the product.

**Recommended cleaning agents:** Water, if necessary together with cleansing agents.

## 14. Transport information

### UN-Number

ADR, IMDG, IATA Void

### UN proper shipping name

ADR, IMDG, IATA Void

### Transport hazard class(es)

ADR, IMDG, IATA Void

### Packaging group

ADR, IMDG, IATA Void

### Special precautions for user

Not applicable

### Transport in bulk according to Annex II

of MARPOL73/78 and the IBC Code Not applicable

### UN "Model Regulation":

Void

## 15. Regulatory information

**Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 16. Other information

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. It does not represent any guarantee of the properties of the product. Genaxxon bioscience GmbH, shall not be held liable for any damage resulting from handling or from contact with the above product.

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## Disclaimer

This product is for R&D use only. Not for drug, household or other uses.

## Abbreviations and Acronyms:

ACAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

CAS: Chemical Abstracts Service (division of the American Chemical Society)

EINECS: European Inventory of Existing Commercial Chemical Substances

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

GHS: Globally Harmonized System of Classification and labeling of Chemicals

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

IMDG: International Maritime code for Dangerous Goods

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail).

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