

**SAFETY DATA SHEET**

Safety Data Sheet according to (EC) No. 1907/2006.

**1. Identification of the substance/preparation and of the company/undertaking**

Identification of the substance or preparation:

**Solution 8 - DAPI •PBS**

Use of the substance/preparation:

Aqueous preparation for research and analysis.

Company/undertaking identification:

ChemoMetec A/S

Gydevang 43 Phone.: (+45) - 48 13 10 20

DK - 3450 Allerød Fax: (+45) - 48 13 10 21

Denmark e-mail: [contact@chemometec.com](mailto:contact@chemometec.com)

Emergency telephone Denmark:

(+45) - 48 13 10 20

Responsible for Safety Data Sheet (e-mail):

Peter Waksman, ALTox a/s ([pw@altox.dk](mailto:pw@altox.dk))**2. Hazards identification**

ALTox a/s has concluded that the preparation is not to be classified.

Contains Sodium azide. Contact with acids may form toxic gases.

Classification:

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**3. Composition/Information on ingredients**

Contents: Phosphate buffered saline and various active ingredients below classification limit

% w/w	Name	CAS-no.	EINECS/ELINCS	Classification
<0.1	4',6-diamidino-2-phenylindole dihydrochloride (DAPI)	28718-90-3	249-186-7	*
0.01	Sodium azide (NaN <sub>3</sub> )	26628-22-8	247-852-1	*

\* Classification is not relevant, because the ingredients are well below the classification limit.

**4. First aid measures****Inhalation:**

Move the affected person to fresh air. Keep at rest. If needed: Get medical attention.

**Skin contact:**

Remove contaminated clothing and wash skin with water and mild soap. If irritation persists: Seek medical advice.

**Eye contact:**

Flush with water or physiological salt water for at least 5 minutes. If irritation persists: Seek medical advice.

**Ingestion:**

Rinse mouth and drink plenty of water. In case of discomfort: Seek medical advice.

**Information:**

Show this Safety Data Sheet to a physician or emergency ward.

**5. Fire-fighting measures****Precautions against fire:**

Not flammable.

**Suitable extinguishing media:**

Not relevant.

**Hazardous combustion or decomposition products:**

Not relevant.

**Protective equipment:**

Not relevant.

### 6. Accidental release measures

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**Personal precautions:**

Use personal protective equipment - see section 8.

**Environmental precautions:**

Do not empty into drains - see section 12. Inform appropriate authorities in accordance with local regulations.

**Methods for cleaning up:**

Take up with wet paper. Clean with water. Further handling of spillage - see section 13.

Sodium azide may react with lead and copper, to form explosive metal azides – see section 10. If the product enters the drain, flush immediately with large amounts of water to avoid azide accumulation.

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### 7. Handling and storage

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**Safe storage:**

Store in an airtight container at a temperature between 2-7°C.

**Specific use(s):**

See section 1.

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### 8. Exposure controls/personal protection

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**Engineering measures (prevention of worker exposure):**

Provide adequate ventilation. Avoid contact with skin, eyes and clothing. Wash with plenty of water and soap after end use.

**Exposure limits (Denmark):**

0,1 mg/m<sup>3</sup> EH (Natriumazid)

**Personal protective equipment:****Respiratory protection:**

Normally not necessary

**Skin protection:**

Wear protective gloves of nitril or butyl rubber. Breakthrough time: Approximately 3 hours.

**Eye protection:**

Wear safety goggles when risk of eye contact.

**Environmental exposure controls:**

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### 9. Physical and chemical properties

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<b>Appearance:</b>	Colorless liquid
<b>Odour:</b>	Odourless
<b>pH:</b>	~ 7.4
<b>Boiling point (°C):</b>	~ 100
<b>Melting point (°C):</b>	~ 0
<b>Solubility in water (mg/ml):</b>	Completely miscible
<b>Specific density (g/cm<sup>3</sup>) 20°C:</b>	~ 1.0

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### 10. Stability and reactivity

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**Stability:**

Stable under the recommended storage conditions (see section 7).

**Conditions to avoid:**

Excessive heating

**Materials to avoid:**

Sodium azide forms a very toxic gas (Hydrogen azide) in contact with acids. Sodium azide may react with lead and copper, to form explosive metal azides.

**Hazardous decomposition products:**

When heated to high temperatures (decomposition) it emits toxic fumes.

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### 11. Toxicological information

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**Routes of exposure:**

Skin, lungs and gastrointestinal tract.

**Acute toxicity:****Inhalation:**

Vapours may cause slight irritation to the airways.

**Skin:**

May causes slight irritation.

**Eyes:**

May causes slight irritation.

**Ingestion:**

Ingestion may irritate the mouth, throat and stomach.

**Long term toxicity:**

Sodium azide in its pure form does affect the CNS, is a possible mutagen and have caused carcinogenic effect in rats.  
No conclusive data fore humans.

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### 12. Ecological information

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**Ecotoxicity:**

Sodium azide is very toxic to the aquatic environment.  $EC_{50}$  (algea, 72h) = 0.1 - 1 mg/l.

**Mobility:**

Completely miscible with water and will spread quickly in the aquatic environment.

**Persistence and degradability:**

Sodium azide is an inorganic substance and therefore not a subject to the degradability testing.

**Bioaccumulative potential:**

Sodium azide:  $\log K_{ow} < 1$  - No significant bioaccumulative potential

**Other adverse effects:**

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### 13. Disposal considerations

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Disposal should be according to local, state or national legislation. Dispose of through authority facilities or pass to chemical disposal company.

**EWC-Code:**

16 05 09

15 02 03 (absorbents, filter materials, wiping cloths, protective clothing contaminated by dangerous substances)

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### 14. Transport information

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Not dangerous goods.

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### 15. Regulatory information

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**EC-no.:** -

**Danger symbol:** -

**Content:** -

**Risk- and Safety-phrases:**

ALTox a/s has the 19 June 2009 concluded, that the preparation is not to be classified.

This Safety Data Sheet is intended as a service to customers/users of this product.

**Restriction on application:**

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### 16. Other information

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**R-phrases mentioned in section 2 & 3:**

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**Special training:**

No special training is required. However, the user should be well instructed in the execution of his task and be familiar with this safety data sheet.

**Other information:**

The Safety Data Sheet is prepared according to REACH regulation (EC) No. 1907/2006.

<b>Edition No.:</b>	<b>Date (revision):</b>	<b>Changes in section(s):</b>
1	19 June 2009	-

Prepared by: ALTox a/s - Godthaabsvej 177 - 2720 Vanløse - Tel. +45 - 38 34 77 98 - Fax: +45 - 38 34 77 99 / PW - Quality control: SNS