

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 9 - AO•DAPI

Use of the substance/preparation:

Aqueous preparation for research and analysis.

Company/undertaking identification:

ChemoMetec A/S

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Responsible for Safety Data Sheet (e-mail):

Peter Waksman, ALTox a/s (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:

-

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	Acridine Orange hemi(zinc chloride)salt (AO)	10127-02-3	233-353-6	*
<0.1	4',6-diamidino-2-phenylindole dihydrochloride (DAPI)	28718-90-3	249-186-7	*
0.01	Sodium azide (NaN ₃)	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

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.

7. Handling and storage

Safe storage:

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

Specific use(s):

See section 1.

8. Exposure controls/personal protection

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/m³ 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

Appearance:	Orange liquid
Odour:	Odourless
pH:	~ 7.4
Boiling point (°C):	~ 100
Melting point (°C):	~ 0
Solubility in water (mg/ml):	Completely miscible
Specific density (g/cm³) 20°C:	~ 1.0

10. Stability and reactivity

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.

11. Toxicological information

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.

12. Ecological information

Ecotoxicity:

Sodium azide is very toxic to the aquatic environment. EC_{50} (alga, 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

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)

14. Transport information

Not dangerous goods.

15. Regulatory information

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

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.

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

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