

Material Safety Data Sheet according to 91/155/EEC

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

Trade names

Artificial urine I (AU-001)

Manufacturer/Supplier

See below.

Telephone/Telefax

See below.

Emergency Telephone

+44 (0)28 95438774

2. Composition/Information on ingredients

Component	CAS no.	Classification	%
Proprietary formulation, containing non-hazardous components over 1%	None	None	100

3. Hazards identification

Emergency overview

Non-hazardous liquid. This product is non-flammable.

Potential health effects

Eye exposure could cause mild to severe irritation in some individuals.

Potential environmental effects

No data available.

4. First-aid measures

Eye contact

Flush thoroughly with water or physiological salt water. Remember to remove contact lenses. If irritation persists, seek medical advice.

Skin Contact

No adverse acute effects are expected via this route of entry. Remove contaminated clothing and wash the affected areas with water and soap.

Inhalation

No adverse acute effects are expected via this route of entry. No special first aid measures are necessary. Inhalation or aspiration unlikely.

Ingestion

Rinse mouth and drink plenty of water. Keep under surveillance. If person feels queasy/discomfort, seek medical advice.

Information

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

5. Fire-fighting measures

Flammability

Not combustible; aqueous solution.

Extinguishing media – suitable

Use suitable extinguishing media for surrounding fire.

Extinguishing media – NOT suitable

-

Special risks in a fire situation

When heated to dryness the product may form hazardous decomposition products.

Protective equipment

When extinguishing fires use breathing apparatus with an independent source of air.

Additional information

-

6. Accidental release measures

Personal precautions

Wear suitable laboratory protective clothing. See protective equipment listed in section 8.

Methods for cleaning up/collecting

Absorb spilled liquid and place spillage in a disposal container. Wash the area of the spill thoroughly with water and soap.

7. Handling and storage

Safe handling

See section 8.

Safe storage

At 4°C. Keep container closed when not in use. Protect against light.

8. Exposure controls and personal protection

Engineering measures (prevention of worker exposure)

Avoid contact with skin and eyes.

Personal protective equipment

Eye protection:	Wear safety goggles when risk of splashes.
Skin protection:	Use gloves of plastic or rubber when risk of contact.
Respiratory protection:	None.

9. Physical and chemical properties

Appearance:	Clear, light yellow liquid
Odour:	-
Boiling point (°C):	100
Flash point (°C):	-
Density (g/ml) at 20°C:	Approximately 1
Solubility in water:	Complete
pH:	6.8-7.6
Melting point	Not available
Freezing point	Not available

10. Stability and reactivity

Stability

Commercially stable.

Conditions to avoid

-

Materials to avoid

-

Hazardous decomposition products

When heated to dryness the product may form hazardous decomposition products.

11. Toxicology information

Although complete toxicity information on this product is not available, none of its components are known to be toxic or hazardous at working concentrations. Artificial urine I contains the mercury-free preservatives, 2-Chloroacetamide (0.1%) and 2-Methyl-4-isothiazolin-3-one (0.01%) , which can produce adverse health effects in their concentrated forms. For more information on these components, refer to the MSDS Sheets available from the manufacturer (Sigma-Aldrich).

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12. Ecological information

No data available.

13. Disposal considerations

Disposal should be according to local, state or national legislation.

14. Transport information

Road/Rail (ADR/RID)

Class:-

Item No.:-

UN No.:-

Letter: -

Proper Shipping Name:-

Sea (IMDG)

IMDG Class:-

IMDG Page No.:-

UN No.:-

MARPOL:-

MFAG:-

EmS:-

Pack. Group:-

Air (ICAO/IATA)

ICAO Class:-

ICAO UN No.:-

15. Regulatory information

Classification according to EEC directives

It has been evaluated that the preparation is not to be classified according to EEC directive 88/379/EEC.

Danger symbol and danger designation: None

Risk-phrases: -

Safety-phrases: -

EINECS no.: -

16. Other information

Use

For research and analysis.

Restriction on application

-

Requirements concerning special training

No special training is anticipated; however, the user should be well instructed for the execution of his task, have knowledge of this Safety Data Sheet and normal training in the use of personal protective equipment.

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