

MATERIAL SAFETY DATA SHEET



Product name: buffer 1
Last revised date: 1. Mar 2005

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

Product name: Solution 1 (Haemalaun)

Included in P/N-no.: add

Application: **First choice in LMD**
RNA friendly Basic Satining Solution 1

Packaging size:
Plastic (PP) bottle, 5ml

Supplier: INNO-TRAIN Diagnostic GmbH
Niederhöchstädterstr. 62
D-61476 Kronberg/Taunus
Tel.: +49 6147 607930

Emergency phone no.:
+49 6226 970335

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: An aqueous salt solution.

<u>Chemical name:</u>	<u>CAS-no.:</u>	<u>%:</u>	<u>Hazard classification:</u>
Haematoxylin	517-28-2	< 0,1	-
DEPC	1609-47-8	< 0,1	Xn; R 20/22-36/37/38 S26-36
Sodium iodate	7681-55-2	< 0,1	Xi; R 8/16, PG: 5.1
Citric acid	5949-29-1	< 0,1	Xi; R 26 S36
K-Al-sulphate	7784-24-9	< 5	-
Chloral hydrate	302-17-0	< 5	Xn; R 25-36/38 S 53-23-45

3. HAZARDS IDENTIFICATION

Man: The hazardous properties of the product are considered to be limited.

Environment: The hazardous properties of the product are considered to be limited.

4. FIRST-AID MEASURES

Inhalation: Vapour may irritate throat and respiratory system and cause coughing.

Skin contact: Wash with plenty of water

Eye contact: Flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions

Ingestion: Immediately rinse mouth and drink plenty of water. Avoid vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media: No restriction.

Specific hazards: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: The usual precautions taken when handling chemicals should be observed.

Environmental precautions: Not relevant.

Methods for cleaning up: Sweep up any spillage with water.

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7. HANDLING AND STORAGE

Safe handling advice: Observe good laboratory hygiene practices. Avoid contact with skin and eyes, do not drink.

Technical precautions: None specific.

Technical measures: Not relevant.

Technical measures for safe storage: No special precautions.

Storage conditions: Store at room temperature.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures: Not relevant.

Chemical name: Exposure limit: Notes: References:

Personal protection: No special precautions.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear slightly red liquid
Odour: salty
pH: 8
Boiling point: app. 100°C
Flash point: Not applicable
Explosive properties: Not applicable
Vapour pressure: Not applicable
Relative density: not determined
Solubility: soluble in water

10. STABILITY AND REACTIVITY

Stability: Stable at ambient temperature.

Conditions/materials to avoid: None specific.

Hazardous decomposition products: None known.

11. TOXICOLOGICAL INFORMATION

Inhalation: Vapour may irritate throat and respiratory system and cause coughing

Skin contact: Prolonged contact may cause redness and irritation

Eye contact: Contact may irritate

Ingestion: Minder harmful in amounts considered to be ingested by accident.
LD₅₀ (oral, rat) = not detected
LD₅₀ (oral, mouse) = not detected

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12. ECOLOGICAL INFORMATION

Mobility: Water soluble. Will spread in water systems
Degradability: Not stated
Ecotoxicity: No ecotoxicity properties known

13. DISPOSAL CONSIDERATIONS

Dispose of spillage and waste according to agreement with governmental and local authorities. Product may be disposed of in waste water.

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID A).

15. REGULATORY INFORMATION

Labelling: The product is not to be classified according to current EEC-legislation (Directive 67/548/EEC Art.25, 1999/45/EC Art.12 and German GefStoffV §42 and TRGS 200 7.1).

Specific provisions: National specific rules may apply.

National regulation:

Europe/USA:

This Safety Data Sheet is prepared according to the EU-regulation. The information meets the requirements in the current ISO and ANSI standards on Safety Data Sheets.


1. EEC Directives 67/548/EEC on dangerous substances (up to and inclusive of the 21st adaptation) and 88/379/EEC on dangerous preparations.
2. Threshold Limit Values (1995-1996), ACGIH, by the American Conference of Governmental Industrial Hygienists.

16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

This product is not classified as a carcinogen according to the National Toxicology Program (NTP), 1994.

The information on this data sheet represents our current data and is accurate to the best of our knowledge as to the proper handling of this product under normal conditions and in accordance with the application specified on the packaging and/or technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

	<p>First Choice in LMD</p> <p>RNA friendly Basic Satining Solution 1</p> <p>for invitro use only</p> <p>www.molecular-machines.com</p>
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Prepared by:

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