

# Material Safety Data Sheet

Trade name: X-DEN (Denaturation Solution)

Date of Issue: June 11, 2004

Revised at: July 26, 2011



Page 1 of 3

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

Trade name: X-DEN (Denaturation Solution); denatures DNA amplicons.  
Product/Catalog Number: -  
Component of Cat. Nos.: 4000, 4010, 4000GXT.

Identification of the company: **Hain Lifescience GmbH**

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**72147 Nehren, Germany**

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## 2. Composition/Information on Ingredients

Preparation contains <2% (w/w) sodium hydroxide (NaOH, EC No. 215-185-5, CAS No. 1310-73-2; C, R35; S26-37/39-45) and <0.001% (w/w) thymol blue.

Additional information: Full text of R- and S-phrases: see under sections 15 and 16.

## 3. Hazardous Characteristics

Irritant; irritating to eyes and skin.

## 4. First Aid Measures

Ingestion: Wash out mouth with water. Call a physician.

Skin contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing.

Eye contact: Immediately flush eyes with plenty of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

## 5. Fire-Fighting Measures

Suitable extinguishing media: No restriction; use any means suitable for extinguishing surrounding fire.

Special protective

equipment for fire-fighting: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Unusual fire and

explosion measures: Emits toxic fumes under fire conditions.

## 6. Accidental Release Measures

Wear gloves and chemical safety goggles. Remove spillage with absorbent material. If necessary, neutralize solution with 5% sulphuric acid, remove reaction product with water and discharge to the sewer.

## 7. Handling and Storage

Handling: Refer to section 8.

Storage: Keep tightly closed at 2-8°C in a dry, ventilated area away from heat sources and flammable and toxic substances.

Specific use: See instructions for use; close vial tightly immediately after use.

# Material Safety Data Sheet

Trade name: X-DEN (Denaturation Solution)

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Page 2 of 3

## 8. Exposure Limitation and Personal Protective Equipment

Wear suitable protective clothing, gloves, and chemical safety goggles. Wash hands thoroughly after handling.

## 9. Physical and Chemical Properties

Appearance: liquid  
Color: blue  
Odor: none  
pH: approx. 14 (room temperature)  
No data available for other parameters.

## 10. Stability and Reactivity

Stability: Note expiry date. Prolonged exposure to air leads to deterioration of the denaturing strength.  
Conditions to avoid: heating  
Incompatibilities: Strong acids. Can corrode copper, lead, and silicon alloys.

## 11. Toxicological Information

No data available.

## 12. Ecological Information

No endangering; in the given concentration sodium hydroxide does not endanger the water supply.

## 13. Disposal Considerations

Dispose of unused reagents and waste in accordance with federal, state, and local regulations.

## 14. Transport Information

No hazardous material as defined by the transport regulations (ADR/RID, IMDG-Code, ICAO-TI/IATA-DGR).

## 15. Regulatory Information

Labeling: Xi  
Designation: Irritating  
R-phrases: R36/38: Irritating to eyes and skin.  
S-phrases: S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S37/39: Wear suitable gloves and eye/face protection.  
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

# Material Safety Data Sheet

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Page 3 of 3

## 16. Other Information

The following R- and S-phrases refer to the classification of the components (pure substance, 100%) and not to the classification of the preparation:

R-phrases:	R35:	Causes severe burns.
	R36/38:	see under section 15
S-Phrases:	S26:	see under section 15
	S37/39:	see under section 15
	S45:	see under section 15

The above product is part of an in vitro diagnostic kit and shall be used by trained staff only. The above information is believed to be correct but does not purport to be all inclusive and should be used only as a guide. Hain Lifescience shall not be held liable for any damage or other consequences resulting from handling or from contact with the above product.

This material safety data sheet was prepared according to the guidelines 1999/45/EC and 91/155/EC.

### Changes compared to the previous version of this document

The following sections were changed: 1. Identification of the Preparation and the Company, 13. Disposal Considerations, 16. Other Information.