

# Material Safety Data Sheet

Trade name: DMSO  
Date of Issue: June 11, 2004  
Revised at: July 26, 2011



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## 1. Identification of the Preparation and of the Company

Trade name: DMSO; serves as additive to PN mixes of the products mentioned below.  
Product/Catalog Number: -  
Component of Cat. Nos.: 4000, 4010, 4000GXT.

Identification of the company: **Hain Lifescience GmbH**  
**Hardwiesenstr. 1**  
**72147 Nehren, Germany**  
**Tel.: +49 (0) 74 73- 94 51- 0**  
Informing department: Tel.: +49 (0) 74 73- 94 51- 30  
Emergency Phone: Tel.: +49 (0) 74 73- 94 51- 0 (Mon-Fri 8:00-17:00 CET)

## 2. Composition/Information on Ingredients

Preparation contains 100% dimethyl sulfoxide [DMSO, CAS No. 67-68-5; Xi; R36/37/38; S23-26-36].  
Additional information: Full text of R- and S-phrases: see under section 15.

## 3. Hazardous Characteristics

Irritant; irritating to eyes, respiratory system and skin.

## 4. First Aid Measures

General information: When exposed acutely, DMSO is considered to be of low toxicity in the amount provided.  
Ingestion: Wash out mouth with water; drink plenty of water. Call a physician.  
Skin contact: Immediately wash skin with soap and copious amounts of water. 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: water spray, dry chemical powder, CO<sub>2</sub>  
Special fire-fighting procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.  
Unusual fire and explosion measures: Dangerous decomposition products (sulphur dioxide) may develop.

## 6. Accidental Release Measures

Wear gloves and chemical safety goggles. Remove spillage with absorbent material.

## 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 from flammable and toxic agents.  
Specific use: See instructions for use; avoid exposure to light.

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## 8. Exposure Limitation and Personal Protective Equipment

Wear suitable protective clothing, gloves, and chemical safety goggles. **Wear at least nitrile gloves with permeation level 1 (permeation time >10 but <30 min).** Wash hands thoroughly after handling.

## 9. Physical and Chemical Properties

Appearance: liquid  
Color: colorless  
Odor: characteristic  
Melting Point: 18.4°C  
Boiling Point: 189°C  
Flashpoint: 87°C (closed crucible), 95°C (open crucible)  
Ignition Point: 270°C

The substance is not self-inflammable and not explosive.  
The substance is completely soluble in water.

## 10. Stability and Reactivity

Stability: Note expiry date and directions in the instructions for use.  
Conditions to avoid: heating  
Incompatibilities: acid chlorides, strong acids, strong oxidizing and reducing agents

## 11. Toxicological Information

DMSO is the most potent skin-resorbable solvent. This characteristic might have negative effects because it promotes the resorption of allergic and carcinogenic substances. The analgesic and anti-inflammatory effect of DMSO, however, led to its broad dermal application as a therapeutic.

## 12. Ecological Information

No endangering; in the amount provided DMSO 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: R36/37/38: Irritating to eyes, respiratory system and skin.  
S-phrases: S23: Do not breathe vapor.  
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36: Wear suitable protective clothing.

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## 16. Other Information

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.