

Material Safety Data Sheet

Trade name: SUB-C (Substrate Concentrate)

Date of Issue: February 20, 2002

Revised at: July 26, 2011



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1. Identification of the Preparation and of the Company

Trade name: SUB-C (Substrate Concentrate); serves as substrate for alkaline phosphatase after dilution in SUB-D.

Product/Catalog Number: -

Component of: all kits of the GenoType, the ThromboType[®] and the micro-IDent[®] series as well as the reagent sets.

Identification of the company: **Hain Lifescience GmbH**
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2. Composition/Information on Ingredients

Preparation contains <70% (v/v) dimethyl sulfoxide (DMSO, CAS No. 67-68-5; Xi; R 36/37/38; S 23-26-36), <4% (w/v) 4-nitro blue tetrazolium chloride (NBT, CAS No. 289-83-9; Xn; R 20/22-36/37/38; S 24-45^{*)}), and <2% (w/v) 5-bromo-4-chloro-3-indolyl phosphate (BCIP, CAS No. 6578-06-9; Xi; R 36/37/38; S 26^{*)}).

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

^{*)} According to guideline 1999/45/EC, Annex II, Part B, Tables I and IV these substances have no influence on the classification of the preparation.

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, CO₂

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.

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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.

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: yellow
Odor: perceptible
pH: >8 (room temperature)
No data available for other parameters.

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

No data available.

12. Ecological Information

No endangering; in the amount provided SUB-C 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).

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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.

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:	R36/37/38: See under section 15
	R20/22: Harmful by inhalation and if swallowed.
S-phrases:	S23-26-36: See under section 15
	S24: Avoid contact with skin.
	S25: Avoid contact with eyes.

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.