

Safety Data Sheet

according to Regulation (EC) No. 1907/2006
Trade name: SUB-C (Substrate Concentrate)
Date of issue: February 20, 2003
Revised at: June 15, 2021 (Version F)



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1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: SUB-C (Substrate Concentrate); component of all kits of the **GenoType** series, the **ThromboType**[®] series, and the **micro-IDent**[®] series as well as of the Reagent Set
Order number: 003-002-12 (0.2 ml), 003-002-96 (1.2 ml)

1.2 Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemical

1.3 Details of the supplier of the safety data sheet

Hain Lifescience GmbH
Hardwiesenstr. 1
72147 Nehren, Germany
Tel.: +49 (0) 74 73- 94 51- 0
E-mail: msds.mdx.de@bruker.com

1.4 Emergency telephone number

+49 (0) 74 73- 94 51- 0 (Mon-Fri 8:00-17:00 CET)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008:
According to Regulation (EC) No. 1272/2008 the mixture is not considered to be hazardous.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008:

Hazard pictogram: none
Signal word: none
Hazard statements: EUH210: Safety data sheet available on request.

2.3 Other hazards

None

3. Composition/information on ingredients

3.2 Mixtures

<70% (v/v) Dimethyl sulfoxide (DMSO) (CAS no. 67-68-5)

Classification of Dimethyl sulfoxide (100%) according to Regulation (EC) No. 1272/2008: none

<10% (w/v) 4-nitro blue tetrazolium chloride (NBT) (CAS no. 298-83-9)

Classification of 4-nitro blue tetrazolium chloride (100%) according to Regulation (EC) No. 1272/2008:
Acute toxicity (category 4; inhalation), acute toxicity (category 4; dermal), acute toxicity (category 4; oral); H302-312-332

<10% (w/v) 5-bromo-4-chloro-3-indolyl phosphate (BCIP) (CAS no. 6578-06-9)

Classification of 5-bromo-4-chloro-3-indolyl phosphate (100%) according to Regulation (EC) No. 1272/2008: Acute toxicity (category 4; inhalation), acute toxicity (category 4; dermal), acute toxicity (category 4; oral); H302-312-332

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Full text of hazard statements: see section 16.

4. First aid measures

4.1 Description of first aid measures

If symptoms arise, call a physician.

If inhaled:	Remove to fresh air. Call a physician.
If swallowed:	Wash out mouth with plenty of water. Drink plenty of water. Call a physician.
In case of skin contact:	Immediately wash skin with soap and copious amounts of water. Remove contaminated clothing. Call a physician.
In case of eye contact:	Immediately flush eyes with plenty of water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers. Call a physician.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

5. Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

Dangerous decomposition products (sulphur dioxide) may develop.

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear gloves and chemical safety goggles. Ventilate area and wash spill site after material pickup is complete.

6.2 Environmental precautions

Do not allow large quantities of product to enter drains.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.

6.4 Reference to other sections

Disposal: see section 13.

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7. Handling and storage

7.1 Precautions for safe handling

No further requirements.

7.2 Conditions for safe storage, including any incompatibilities

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

7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

DMSO:

Threshold limit value (recommendation of the MAK Commission): 50 ml/m³; 160 mg/m³

Top limiting: exceedance factor 2

Duration 15 min, mean value; 4x per shift; interval 1 h

Risk of skin resorption

Pregnancy: group D

The risk of foetal damage cannot be assessed since there are either no data or not sufficient data for classification in one of the groups A, B, or C.

8.2 Exposure controls

Wear suitable protective clothing, gloves, and chemical safety goggles when handling the product. Close vial tightly immediately after use. Wash hands thoroughly after handling.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

- a) Appearance: yellow liquid
- b) Odour: perceptible
- c) Odour threshold: No data available.
- d) pH: 9.2-9.4 (room temperature)
- e) Melting point/freezing point: No data available.
- f) Initial boiling point and boiling range: No data available.
- g) Flash point: No data available.
- h) Evaporation rate: No data available.
- i) Flammability (solid, gas): No data available.
- j) Upper/lower flammability or explosive limits: No data available.
- k) Vapour pressure: No data available.
- l) Vapour density: No data available.
- m) Relative density: 1.1
- n) Solubility(ies): water soluble
- o) Partition coefficient n-octanol/water: No data available.
- p) Auto-ignition temperature: No data available.
- q) Decomposition temperature: No data available.
- r) Viscosity: No data available.
- s) Explosive properties: No data available.
- t) Oxidising properties: No data available.

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9.2 Other information

No data available.

10. Stability and reactivity

10.1 Reactivity

No data available.

10.2 Chemical stability

No data available.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Acid chlorides, strong acids, strong oxidizing and reducing agents

10.6 Hazardous decomposition products

No data available.

11. Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity:

NBT:

LD50 (oral, mouse): 2000 mg/kg

b) Skin corrosion/irritation: No data available.

c) Serious eye damage/irritation: No data available.

d) Respiratory or skin sensitisation: No data available.

e) Germ cell mutagenicity: No data available.

f) Carcinogenicity: No data available.

g) Reproductive toxicity: No data available.

h) Specific target organ toxicity - single exposure: No data available.

i) Specific target organ toxicity - repeated exposure: No data available.

j) Aspiration hazard: No data available.

12. Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

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12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13. Disposal considerations

13.1 Waste treatment methods

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

14. Transport information

14.1 UN number

ADR/RID: -

IMDG: -

IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4 Packing group

ADR/RID: -

IMDG: -

IATA: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

14.6 Special precautions for user

No data available.

15. Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

15.2 Chemical safety assessment

No data available.

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16. Other information

The following hazard statements refer to the classification of the components (pure substance, 100%) and not to the classification of the mixture:

H302: Harmful if swallowed.
H312: Harmful in contact with skin.
H332: Harmful if inhaled.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

The above product 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.

Changes compared to the previous version of this document
Section 1.3