

Safety Data Sheet

according to Regulation (EC) No. 1907/2006

Trade name: HYB (Hybridization Buffer)

Date of issue: March 28, 2007

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: HYB (Hybridization Buffer); 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: 004-005-12 (20 ml), 004-005-96 (120 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:

The mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

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

<10% Sodium laureth sulfate (CAS no. 68891-38-3, Registration no. 01-2119488639-16)

Classification of sodium laureth sulfate (100%) according to Regulation (EC) No. 1272/2008: Skin irritation (category 2), serious eye damage (category 1), hazardous to the aquatic environment - chronic (category 3); H315-318-412

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.

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| | |
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| 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

No data available.

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. Particular slip hazard after leakage or spillage.

6.2 Environmental precautions

Do not allow product to enter drains.

6.3 Methods and material for containment and cleaning up

Wearing gloves, remove spillage with absorbent material. Flush away leavings with plenty of water.

6.4 Reference to other sections

Disposal: see section 13.

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.

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7.3 Specific end use(s)

No data available.

8. Exposure controls/personal protection

8.1 Control parameters

Does not contain substances with exposure limit values.

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: green liquid
- b) Odour: weak inherent smell
- c) Odour threshold: No data available.
- d) pH: 7.0-7.5 (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: (dynamic) <20 mPas
- s) Explosive properties: No data available.
- t) Oxidising properties: No data available.

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.

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10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

11. Toxicological information

11.1 Information on toxicological effects

- a) Acute toxicity: No data available.
- 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

Sodium laureth sulfate:

LC50 (Brachydanio rerio): >10-100 mg/l (DIN EN ISO 7346-2)

EC0 (Pseudomonas putida): >100 mg/l (OECD directive 209)

NOEC 0.1-1mg/l

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

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.

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13. Disposal considerations

13.1 Waste treatment methods

Dispose of unused reagents and waste in accordance with federal, state, and local regulations. Do not allow reagent to enter drains.

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

German regulation:

Water hazard class 2

15.2 Chemical safety assessment

No data available.

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:

H315: Causes skin irritation.

H318: Causes serious eye damage.

H412: Harmful to aquatic life with long lasting effects.

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.

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Changes compared to the previous version of this document
Chapter 1.3

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Annex: Exposure Scenarios

Short title of exposure scenario:

Consumer applications

SU3, SU22, SU21, SU10, SU5; ERC8a; PROC1, PROC2, PROC3, PROC4, PROC5, PROC8a, PROC8b, PROC10, PROC11, PROC13, **PROC15**, PROC19; PC35, PC3, PC31, PC1, PC9a, PC9b, PC9c, PC39

Control of exposure and risk management measures:

| | |
|-------------------------------------------------------------|-------------------------------------------------------------|
| Contributing exposure scenario | |
| <i>Use descriptors covered</i> | AISE SPERC 8a.1.a.v1: AISE SPERC 8a.1.a.v1 |
| <i>Operational conditions</i> | |
| Annual amount used in the EU | 24,450,000 kg |
| Receive Surf. Water (Flow Rate). | 18,000 m3/d |
| Dilution factor river | 10 |
| Dilution factor coast | 100 |
| Vapour pressure of the substance during use | 0.001 hPa |
| Process temperature | 20 °C |
| <i>Risk Management Measures</i> | |
| Type of STP | Municipal STP |
| Assumed sewage treatment plant flow (m3/d) | 2,000 m3/d |
| <i>Exposure estimate and reference to its source</i> | |
| Assessment method | EASY TRA v2.0, ECETOC TRA v2.0 Environment |
| Risk Characterization Ratio (RCR) | 0.032409 |
| | Risk from environmental exposure is driven by marine water. |
| Maximum amount of safe use | 155.018068 kg/d |
| Risk from environmental exposure is driven by marine water. | |

| | |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Contributing exposure scenario | |
| <i>Use descriptors covered</i> | PROC15: Use a laboratory reagent. Use domain: professional |
| <i>Operational conditions</i> | |
| Concentration of the substance | Alcohols, C12-14, ethoxylated, sulfates, sodium salts (> 1 < 2.5 mol EO) Content: >= 0 % - <= 100 % |
| Physical state | liquid |

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| Vapour pressure of the substance during use | 0.001 hPa |
| Process temperature | 20 °C |
| Duration and Frequency of activity | 15 min 5 days per week |
| Indoor/Outdoor | Indoor |
| <i>Risk Management Measures</i> | |
| Local exhaust ventilation | Effectiveness: 80 % |
| <i>Exposure estimate and reference to its source</i> | |
| Assessment method | EASY TRA v2.0, ECETOC TRA v2.0 Worker; modified version |
| | Worker - dermal, long-term - systemic |
| Exposure estimate | 0.0343 mg/kg bw/day |
| Risk Characterization Ratio (RCR) | 0.000012 |
| Assessment method | EASY TRA v2.0, ECETOC TRA v2.0 Worker; modified version |
| | Worker - inhalative, long-term - systemic |
| Exposure estimate | 0.5085 mg/m ³ |
| Risk Characterization Ratio (RCR) | 0.002906 |
| <i>Guidance to Downstream Users</i> | |
| For scaling see: http://www.ecetoc.org/tra Please note that a modified version has been used (see exposure estimates) | |