
Safety Data Sheet

Section 1: Identification of the substance/mixture, intended use and of the company/undertaking

1.1 Identification of the substance/mixture

Product No.: B103
Product Name: Biotin-PEG4-NHS Ester
Synonym: n/a

1.2 Identified uses of the substance or mixture

Identified Uses: Laboratory chemicals, manufacture of substances

1.3 Company/undertaking identification

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Section 2: Composition/Information on Ingredients

CAS No.: 459426-22-3
Mol. Formula: C₂₅H₄₀N₄O₁₀S
Weight: 588.67
Assay: N/A

The product contains no substances which at their given concentration are considered to be hazardous to health.

Section 3: Hazards Identification

3.1 Classification of the substance or mixture

Not a hazardous substance or mixture.

3.2 GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

3.3 Hazards not otherwise classified (HNOC) or not covered by GHS

Not a hazardous substance or mixture.

Section 4: First-Aid Measures

4.1 Description of first aid measures

If inhaled

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

In case of skin contact

Rinse with plenty of water. Immediate medical attention is not required.

In case of eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

If swallowed

Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

4.2 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

4.3 Most important symptoms and effects, both acute and delayed

Not Applicable

4.4 Indication of any immediate medical attention and special treatment needed

None

Section 5: Fire Fighting Measures

5.1 Extinguishing media

Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

5.2 Advice from firefighters

Standard procedure for chemical fires.

5.3 Further information

No data available

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

6.2 Environmental precautions

No special environmental precautions required.

6.3 Methods and materials for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

See Section 8 for additional information.

Section 7: Handling and Storage

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place.

7.3 Specific end use(s)

For research use only.

Section 8: Exposure Controls/Personal Protection

8.1 Control parameters

Exposure Limits

Contains no substances with occupational exposure limit values

Engineering measures

Ensure adequate ventilation, especially in confined areas

8.2 Exposure controls

Personal Protective Equipment

Respiratory protection

In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards

Hand protection

Wear suitable gloves Glove material: Compatible chemical-resistant gloves

Eye/Face protection

Wear tight sealing safety goggles

Skin/Body Protection

Wear suitable protective clothing

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

Control of Environmental exposure

No special environmental precautions required

Section 9: Physical and Chemical Properties**9.1 Information on basic physical and chemical properties**

a) Appearance	Form: solid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	Not Applicable
e) Melting / Freezing points	°C and °F Mixture has not been tested
f) Initial boiling point & boiling range	°C and °F Mixture has not been tested
g) Flash point	°C and °F Mixture has not been tested
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Explosive limits	Mixture has not been tested

k) Vapor pressure	Mixture has not been tested
l) Vapor pressure	Mixture has not been tested
m) Relative density	Mixture has not been tested
n) Water solubility	DMSO, DMF, DCM, THF, Chloroform
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) Oxidizing properties	No data available

9.2 Other safety information

No data available.

Section 10: Stability and Reactivity

10.1 Reactivity

None known

10.2 Chemical stability

Stable under normal conditions

10.3 Possibility of hazardous reactions

Hazardous reaction has not been reported

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No dangerous reaction known under conditions of normal use

10.6 Hazardous decomposition products

No data available

Section 11: Toxicological Information

11.1 Information on toxicological effects

There is no evidence available indicating acute toxicity

11.2 Principal Routes of Exposure

Irritation	Conclusive but not sufficient for classification
Corrosivity	Conclusive but not sufficient for classification
Sensitization	Conclusive but not sufficient for classification
STOT - Single Exposure	Conclusive but not sufficient for classification
STOT - Repeated Exposure	Conclusive but not sufficient for classification
Carcinogenicity	Conclusive but not sufficient for classification
Mutagenicity	Conclusive but not sufficient for classification
Reproductive toxicity	Conclusive but not sufficient for classification
Aspiration hazard	Conclusive but not sufficient for classification

Section 12: Ecological Information

12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2 Persistence and degradability

No information available

12.3 Bio accumulative potential

No information available

12.4 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

12.5 Other adverse effects

No information available

Section 13: Disposal Considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in accordance with approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.

Section 14: Transport Information

14.1 IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations.

UN number Not Applicable

UN proper shipping name Not Applicable

Transport hazard class(es) Not Applicable

Packing group Not Applicable

Environmental hazards Not Applicable

Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not Applicable

Section 15: Regulatory Information

15.1 SARA 313 Components

This product is not regulated by SARA

15.2 Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs

15.3 California Proposition 65

This product does not contain any Proposition 65 chemicals.

15.4 WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products

Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16: Other Information

References

- ECHA: <http://echa.europa.eu/>
- TOXNET: <http://toxnet.nlm.nih.gov/>
- eChemPortal: <http://www.echemportal.org/>

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