

Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: MagStrep® Strep-Tactin® Beads
Version: 2.4
Revision date: 17.01.2024



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

1.1 Product identifiers

Product Name: MagStrep® Strep-Tactin® beads; MagStrep® Strep-Tactin®XT beads

Product Number: 2-1613-xxx 2-5090-xxx

Registration Number:

A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture

laboratory chemical

and uses advised against:

No relevant information available.

1.3 Details of the supplier of the safety data sheet

Supplier: IBA Lifesciences GmbH
Rudolf-Wissell-Str. 28
37079 Göttingen
Germany

Telephone: +49-551-50672- 0

E-mail: info@iba-lifesciences.com

1.4 Emergency Telephone Number

Emergency Phone: +49 (0)551/ 19240 (Poison Information Center Göttingen)

2 Hazards Identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP] not hazardous

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 [CLP] n/a

2.3 Other hazards

To the best of our knowledge, the chemical, physical, and toxicological properties of streptavidin and its muteins have not yet been thoroughly investigated.

IBA Lifesciences GmbH therefore recommends treating these products with the care that is due to unknown chemicals.

3 Composition/Information on ingredients

3.2 Chemical characterization: Mixtures

Description of product:

The product consists of Strep-Tactin® respectively Strep-Tactin®XT coated magnetic beads, which are shipped in a 5% suspension in PBS buffer, with 0.1% sodium azide added.

Strep-Tactin® and Strep-Tactin®XT are muteins of streptavidin, an extracellular protein of *Streptomyces avidinii* that binds biotin with high affinity.

The beads are spherical magnetic agarose beads with an average diameter of 30 µm, consisting of 6% cross-linked agarose.

Hazardous components according to Regulation (EC) No 1272/2008 [CLP]:

| Component | CAS-No | % | Classification acc. to (EC) 1972/2008 |
|--------------|------------|-------|--|
| Sodium azide | 26628-22-8 | 0.1 % | Acute Tox (oral) 2; Acute Tox. (dermal) 1; STOT RE (2); Aquatic Tox. 1; Aquatic Chronic (1) H300; H310; H373; H400; H410 |

4 First aid measures

4.1 Description of first aid measures



After inhalation: Provide fresh air. If feeling unwell, consult a physician.

After skin contact: Wash with plenty of soap and water. If skin irritation occurs, consult a physician.

After eye contact: Flush eyes with water for at least 10 minutes. If irritation persists, consult a physician.

After ingestion: Rinse mouth and drink water if conscious. If feeling unwell, consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

No relevant information available.

4.3 Indications of any immediate medical attention and special treatment needed

No relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

CO₂, dry extinguishing powder, foam, or water spray.

Unsuitable extinguishing media

No relevant information available.

5.2 Special hazards arising from the substance of mixture

No relevant information available.

5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary (see section 5.2).

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear suitable protective equipment.
Avoid eye and skin contact.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Take up mechanically.
Place in appropriate containers for disposal.
Provide suitable ventilation.

6.4 Reference to other sections

Information about safe handling: see section 7.
Information about protective equipment: see section 8.
Information for disposal: see section 13.

7 Handling and storage

7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.
Keep containers, equipment, and workplace clean.

7.2 Conditions for safe storage, including any incompatibilities

| | |
|---|---------------------------------|
| Storage rooms and containers: | No special requirements. |
| Incompatible substances or mixtures: | Keep away from food and drink. |
| Consideration of other advice: | Keep containers tightly closed. |
| Recommended storage temperature: | 2 – 8 °C |

7.3 Specific end use(s)

No relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Components with workplace control parameters: none

8.2 Exposure controls

General precautionary and hygiene measures

The usual precautions for handling chemicals should be observed.
Avoid contact with eyes and skin.
Wash hands before breaks and after work.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.
For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Inspect gloves prior to each use. Choose suitable gloves according to break through time, permeation rate and material degradation.

Glove material

Nitrile rubber, minimum layer thickness: ≥ 0.11 mm

The suitability of gloves depends on several quality characteristics besides the material. It may differ from one supplier to another.

Break through time

Break through level: Level ≥ 6

The exact break through time should be inquired from the supplier and should be observed.

Eye protection

Use safety goggles with side protection.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific workplace. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | |
|---|-------------------------------------|
| Appearance: | black suspension, sediments quickly |
| Odor: | odorless |
| Odor threshold: | no data available |
| pH: | 6.8 |
| Melting point: | no data available |
| Freezing point: | no data available |
| Initial boiling point and boiling range: | no data available |
| Flash point: | no data available |
| Evaporation rate: | no data available |
| Upper/lower explosive limits: | no data available |
| Vapor pressure: | no data available |
| Vapor density: | no data available |
| Relative density: | no data available |
| Water solubility: | no data available |
| Partition coefficient (n-octanol/water): | no data available |
| Viscosity: | no data available |
| Explosive properties: | not explosive |
| Oxidizing properties: | not oxidizing |

9.2 Other safety information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with alkaline and oxidizing substances.

10.4 Conditions to avoid

No relevant information available.

10.5 Incompatible materials

No relevant information available.

10.6 Hazardous decomposition products

No relevant information available.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity

ATE (mix) oral > 20000 mg/kg

ATE (mix) dermal > 20000 mg/kg

Skin corrosion/irritation

No relevant information available.

Serious eye damage/eye irritation

No relevant information available.

Respiratory or skin sensitization.

No relevant information available.

Germ cell mutagenicity

No relevant information available.

Carcinogenicity

No relevant information available.

Reproductive toxicity

No relevant information available.

Specific target organ toxicity – single exposure

No relevant information available.

Specific target organ toxicity – repeated exposure

No relevant information available.

Aspiration hazard

No relevant information available.

12 Ecological information

12.1 Toxicity

No relevant information available.

12.2 Persistence and degradability

No relevant information available.

12.3 Bioaccumulative potential

No relevant information available.

12.4 Mobility in soil

No relevant information available.

12.5 Results of PBT- and vPvB-assessment

No relevant information available.

12.6 Other adverse effects

No relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation for product:

The disposal is regionally differently regulated, therefore the kind of disposal is to be inquired at the responsible authorities.

Contaminated packaging:

Dispose of as unused product.

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 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG: marine pollutant: no IATA: no

14.6 Special precaution for user

No relevant information available.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

No relevant information available.

15 Regulatory Information

15.1 Safety, health and environmental regulation specific for the substance or mixture

National regulations:

No relevant information available.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance / mixture.

16 Other information

The above information is based on our present-day knowledge. It does not represent any guarantee of the properties of the product, not guarantee specific properties of the product and shall not establish a legally valid contractual relationship.

17 Changes to Version 2.0 (from 01.11.2015)

The appearance of MagStrep Beads was wrongly given as a “whitish suspension”. It is a black suspension.

Changes to Version 2.1 (from 25.10.2019)

MagStrep “type 3” Strep-Tactin® Beads was included in the MSDS. Except for the Strep-Tactin® muterin, the information is the same as for MagStrep “type 3” XT beads.

Changes to Version 2.2 (from 20.09.2023)

A more stable version of Strep-Tactin®XT is now used for the MagStrep XT beads. The catalogue number was changed from 2-4090-xxx to 2-5090-xxx.

MagStrep “type 3” Strep-Tactin® beads (2-1613-xxx) were not changed.

Changes to Version 2.3 (from 05.08.2021)

The names of the products were changed:

MagStrep “type 3” Strep-Tactin® beads is now MagStrep® Strep-Tactin® beads

MagStrep “type 3” XT Beads is now MagStrep® Strep-Tactin®XT beads

The average diameter of the beads has been reevaluated by the supplier and is now given as 30 µm rather than 25 µm. Otherwise, no changes were made to the products themselves.