

# Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Strep-Tactin PE conjugate / Strep-Tactin XT PE conjugate  
Version: 4.1  
Revision date: 14.07.2023



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

### 1.1 Product identifiers

**Product Names:** Strep-Tactin® phycoerythrin (PE) conjugate  
Strep-Tactin®XT phycoerythrin (PE) conjugate

**Product Numbers:** 6-5000-xxx  
6-5400-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 (EC) No 1272/2008 [CLP]** not hazardous

### 2.2 Label elements

**Labelling 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:

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

The product consists of R-phycoerythrin (PE) bound to Strep-Tactin® resp. Strep-Tactin®XT.

The product is dissolved in buffer with a concentration of 75 µg/ml.

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

No component of this mixture is classified as hazardous according to Regulation (EC) No 1272/2008.

## 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

CO<sub>2</sub>, 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.

## 6 Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

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

Dilute spill with water and absorb it.

Place in appropriate containers for disposal.

## 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:  $\geq 0,11$  mm

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

##### Break through time

Break through level: Level  $\geq 6$

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

<b>Appearance:</b>	pink liquid
<b>Odor:</b>	odorless
<b>Odor threshold:</b>	no data available
<b>pH:</b>	6.7 – 6.9
<b>Melting point:</b>	no data available
<b>Freezing point:</b>	no data available
<b>Initial boiling point and boiling range:</b>	no data available
<b>Flash point:</b>	no data available
<b>Evaporation rate:</b>	no data available
<b>Upper/lower explosive limits:</b>	no data available
<b>Vapor pressure:</b>	no data available
<b>Vapor density:</b>	no data available
<b>Relative density:</b>	no data available
<b>Water solubility:</b>	fully miscible
<b>Partition coefficient (n-octanol/water):</b>	no data available
<b>Viscosity:</b>	no data available
<b>Explosive properties:</b>	not explosive
<b>Oxidizing properties:</b>	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

No relevant information available.

### 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**

No component is classified as acute toxic.

#### **Skin corrosion/irritation**

No component is classified as classified as irritant.

#### **Serious eye damage/eye irritation**

No component is classified as classified as irritant.

#### **Respiratory or skin sensitization.**

No component is classified as classified as a respiratory or skin sensitizer.

#### **Germ cell mutagenicity**

No component is classified as a mutagenic toxicant.

#### **Carcinogenicity**

No component is classified as a carcinogenic toxicant.

#### **Reproductive toxicity**

No component is classified as a reproductive toxicant.

#### **Specific target organ toxicity – single exposure**

No component is classified as a specific target organ toxicant (single exposure).

#### **Specific target organ toxicity – repeated exposure**

No component is classified as a specific target organ toxicant (repeated exposure).

#### **Aspiration hazard**

No component is classified as an aspiration hazard.

## **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.

