

# Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Strep-Tactin resins  
Version: 3.6  
Revision date: 01.03.2020



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

### 1.1 Product identifiers

<b>Product Name:</b>	Strep-Tactin® resins:	
<b>Product Numbers:</b>	Strep-Tactin® Sepharose	not sold separately
	contained in columns	2-1202-xxx
	Strep-Tactin® Superflow	2-1206-xxx
	Strep-Tactin® Superflow High Capacity	2-1208-xxx
	contained in columns	2-1209-xxx
	contained in cartridges	2-1237-xxx, 2-1238-xxx
	Strep-Tactin® MacroPrep	2-1505-xxx
	Strep-Tactin®XT Macro Prep	not sold separately
	contained in columns	2-4150-xxx
	Strep-Tactin®XT Superflow	2-4010-xxx
	contained in columns	2-4011-xxx, 2-4012-xxx, 2-4013-xxx, 2-4014-xxx 2-4015-xxx
	contained in cartridges	2-4021-xxx, 2-4022-xxx
	Strep-Tactin®XT Superflow High Capacity	2-4030-xxx
	contained in columns	2-4031-xxx, 2-4032-xxx, 2-4033-xxx, 2-4034-xxx
	contained in cartridges	2-4025-xxx, 2-4026-xxx
	Strep-Tactin®XT 4Flow	2-5010-xxx
	contained in columns	2-5011-xxx, 2-5012-xxx 2-5013-xxx, 2-5014-xxx 2-5015-xxx
	contained in cartridges	2-5021-xxx, 2-5022-xxx, 2-5025-xxx, 2-5026-xxx
	Strep-Tactin®XT 4Flow High Capacity	2-5030-xxx
	contained in columns	2-5031-xxx, 2-5032-xxx, 2-5033-xxx, 2-5034-xxx, 2-5035-xxx

### Product as part of kits:

2-1237-xxx	is part of	2-1117-000
2-1506-xxx	is part of	2-1101-000
2-4011-xxx	is part of	2-4999-999
2-4012-xxx	is part of	2-4998-000
2-5031-xxx	is part of	2-5997-999
6-4150.xxx	is part of	2-4151-000

#### 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 GmbH  
Rudolf-Wissell-Str. 28  
37079 Göttingen  
Germany

**Telephone:** +49-551-50672- 0

**E-mail:** info@iba-lifesciences.com

#### 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 the Strep-Tactin resins have not yet been thoroughly investigated.

IBA 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. Strep-Tactin resins themselves do not contain any hazardous components. Small quantities of tris, sodium azide, and EDTA have been added to the suspension to increase shelf life.

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

Component	CAS-No	%	Classification acc. to (EC) 1972/2008
Tris	77-86-1	1 - 2 %	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H315, H319, H335
Sodium azide	26628-22-8	<0,05 %	Acute Tox (oral) 2; Acute Tox. (dermal) 1; STOT RE (2); Aquatic Tox. 1; Aquatic Chronic (1) H300; H310; H373; H400; H410
EDTA (Ethylenediaminetetraacetic acid)	6381-92-6	<0,01 %	Acute Tox. 4 (inhal.), STOT RE 2 H332, H372

## 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

Irritations

### 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

In case of fire may be liberated:

Nitrogen oxides,  
Carbon oxides

### 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

<b>Storage rooms and containers:</b>	No special requirements.
<b>Incompatible substances or mixtures:</b>	Keep away from food and drink.
<b>Consideration of other advice:</b>	Keep containers tightly closed.
<b>Recommended storage temperature:</b>	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>	whitish suspension, sediments quickly
<b>Odor:</b>	odorless
<b>Odor threshold:</b>	no data available
<b>pH:</b>	7.9 – 8.1
<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>	no data available
<b>Partition coefficient (n-octanol/water):</b>	no data available
<b>Viscosity:</b>	no data available
<b>Explosive properties:</b>	no data available
<b>Oxidizing properties:</b>	no data available

### 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

Heating (causes degradation).

### 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 > 19000 mg/kg  
ATE (mix) dermal > 40000 mg/kg  
ATE (mix) inhal. > 30000 mg/kg

#### Skin corrosion/irritation

Tris (1-2 %) may cause skin irritation, but the concentration does not warrant classification of the mixture.

#### Serious eye damage/eye irritation

Tris (1-2 %) may cause eye irritation, but the concentration does not warrant classification of the mixture.

#### 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

Tris (1-2%) may cause respiratory irritation, but the concentration does not warrant classification of the mixture.

#### Specific target organ toxicity – repeated exposure

Sodium azide (<0,05%) may cause damage to the brain through prolonged or repeated exposure. EDTA (<0,01%) may cause respiratory irritation. Neither concentration warrants classification of the mixture.

#### 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.

## 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 3.0** (from 01.11.2015)

Strep-Tactin®XT resin has been added to the IBA catalogue. All information relevant to this safety data sheet is the same for Strep-Tactin®XT and Strep-Tactin® m1 resins.

Catalogue Numbers of columns and cartridges containing the resins are now listed.

**Changes to Version 3.1** (from 01.04.2016)

Catalogue Numbers of kits that include resins, columns or cartridges are now listed.

**Changes to Version 3.2** (from 06.12.2016)

The choice of kits of which this buffer is a component has been updated.

**Changes to Version 3.3** (from 01.03.2017)

The choice of kits of which this buffer is a component has been updated.

**Changes to Version 3.4** (from 12.07.2017)

Strep-Tactin®XT MacroPrep Spin Columns have been added to the IBA catalogue.

**Changes to Version 3.5** (from 30.08.2017)

Strep-Tactin®XT superflow high capacity has been added to the IBA catalogue.

**Changes to Version 3.6** (from 01.03.2020)

Strep-Tactin®XT 4Flow has been added to the IBA catalogue.

Strep-Tactin® Sepharose is no longer sold as bulk.

Strep-Tactin® MacroPrep columns, Strep-Tactin® Superflow columns and cartridges are no longer sold.