Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Buffer CI 10x
Version: 1.1
Revision date: 21.01.2020

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

1.1 Product identifiers

Product Name: Buffer CI (10x) for cell isolation

Product Number: 6-6320-xxx

Part of kits: TACS gravity isolation kits human 6-32xx-xxx

TACS gravity isolation kits mouse 6-33xx-xxx and 6-34xx-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 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]

Aquatic chronic 3 (H412)

2.2 Label elements

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

Hazard pictogram: n/a

Signal word: n/a

Hazard statements:
H412 Harmful to aquatic life with long lasting effects

Precautionary statements:
P273 Avoid release to the environment.

2.3 Other hazards

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

3 Composition/Information on ingredients

3.2 Chemical characterization: Mixtures

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

Component	CAS-No	%	Classification acc. to (EC) 1972/2008
Sodium azide	26628-22-8	< 0,5 %	Acute Tox. 2 (oral), Aquatic Acute (1), Aquatic Chronic (1) H300, 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
CO_2, 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: ≥ 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 ≥ 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:	colorless liquid
Odor:	odorless
Odor threshold:	no data available
pH:	no data available
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:	fully miscible
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

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

Low concentration of sodium azide (<0,5%) does not warrant classification of mixture.

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

Sodium azide (<0,5%) is classified as both acute and chronic toxic for water organisms.
For pure sodium azide: EC50 – Daphina pulex 4,2mg/l 48 h

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 1.0 (from 12.01.2018)

The list of kits containing this product was updated.

Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Fab-Streps / Nano-Streps
Version: 3.5
Revision date: 26.01.2021

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

1.1 Product identifiers

Product Name: Fab-Streps / Nano Streps

Product Number: 6-80xx-xxx Fab-Streps for cell purification (human)
6-85xx-xxx Fab-Streps for cell purification (mouse)
6-85xx-xxx Nano-Streps for cell purification (mouse)
6-89xx-xxx Fab-Streps for cell expansion

Product as part of kits:	6-80xx-xxx	are part of	FABian Isolation Kits (human): 6-6001-001, 6-6002-001, 6-6003-001, 6-6004-001, 6-6007-001, 6-6013-001, 6-6014-001, 6-6015-001, 6-6016-001, 6-6017-001 Fab-TACS Agarose Column Starter Kits (human) 6-3201-002, 6-3202-002, 6-3203-002, 6-3213-002, 6-3216-002 Fab-TACS® Exosome Agarose Column Starter Kit (human) 6-3319-002, 6-3381-002 Fab-TACS® Magnetic Microbead Starter Kits (human): 6-8000-101, 6-8000-103, 6-8000-104, 6-8000-105, 6-8000-106, 6-8000-107, 6-8000-108, 6-8000-109, 6-8000-110, 6-8000-111, 6-8000-112, 6-8000-113, 6-8000-114, 6-8000-115, 6-8000-116, 6-8000-117, 6-8000-121
	6-85xx-xxx	are part of	Fab-TACS/Nano-TACS Agarose Column Starter Kit (mouse): 6-3301-002, 6-3304-002, 6-3305-002, 6-3307-002 FABian Isolation Kits (mouse) 6-6501-001, 6-6504-001, 6-6505-001, 6-6507-001
	6-89xx-xxx	are part of	CD3/CD28 Streptamer Kit (human) 6-8900-050

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

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 the various fab-streps 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:

Fab-Streps are recombinant microbially expressed Fab fragments of monoclonal antibodies against cell surface markers.
Fab-Streps are dissolved in PBS-buffer containing 0.5% human serum albumin (HSA) and then lyophilized.

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_2, 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:	-90 to -60 °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 characteristic 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:	colorless powder (lyophilized)
Odor:	odorless
Odor threshold:	no data available
pH:	no data available
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

No relevant information available.

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 Annnex 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)

Fab-Streps for cell activation and expansion have been included. Except for the concentration of the new Fab-Streps all information relevant to this safety data sheet remains unchanged.

Changes to Version 3.1 (from 01.03.2016)

Concentration of Fab-Streps is no longer given on MSDS.

Changes to Version 3.2 (from 30.08.2018)

Mouse Fab-Streps have been included.
Fab-Streps are lyophilized.

Changes to Version 3.3 (from 21.01.2020)

The list of kits containing this product was updated.

Changes to Version 3.4 (from 09.06.2020)

The list of kits containing this product was updated.

Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Strep-Tactin Magnetic Microbeads
Version: 3.2
Revision date: 26.01.2021

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

1.1 Product identifiers

Product Name: Strep-Tactin® Magnetic Microbeads

Product Number: 6-5510-xxx; 6-5530-xxx

Product as part of kits: 6-5510-xxx are part of Fab-TACS® Magnetic Microbead Starter Kits (human):
6-8000-101, 6-8000-103, 6-8000-104,
6-8000-105, 6-8000-106, 6-8000-107,
6-8000-108, 6-8000-109, 6-8000-110,
6-8000-111, 6-8000-112, 6-8000-113,
6-8000-114, 6-8000-115, 6-8000-116,
6-8000-117, 6-8000-121

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

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 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 covalently linked to polyvinyl alcohol (PVA) coated magnetic microbeads with a diameter of 1 - 3 µm.
Strep-Tactin m2 is a mutein of streptavidin, an extracellular protein of Streptomyces avidinii that binds biotin with high affinity.
The buffer contains a small quantity of sodium azide to increase shelf life.

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
CO_2, 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 characteristic 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:	brown suspension
Odor:	odorless
Odor threshold:	no data available
pH:	7.4
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

No relevant information available.

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 Annnex 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 04.05.2016)

Correction: suspension is brown, not whitish.

Changes to Version 3.1 (from 11.12.2019)

The list of kits containing this product was updated.

Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Biotin stock solution
Version: 2.4
Revision date: 13.01.2021

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

1.1 Product identifiers

Product Name: Biotin stock solution

Product Number: 6-6325-xxx; 6-6996-xxx

Part of kits:

6-6325-xxx is part of
Fab-TACS Agarose Column Starter Kits (human)
6-3201-002, 6-3202-002, 6-3203-002,
6-3213-002, 6-3216-002
Fab-TACS Magnetic Microbead Starter Kits (human)
6-8000-105, 6-8000-110, 6-8000-111,
6-8000-112, 6-8000-113, 6-8000-114,
6-8000-115, 6-8000-116, 6-8000-117,
6-8000-121
CD3/CD28 Streptamer Kit (human)
6-8900-050

6-6996-xxx is part of
FABian Isolation Kits (human):
6-6001-001, 6-6002-001, 6-6003-001,
6-6004-001, 6-6007-001, 6-6013-001,
6-6014-001, 6-6015-001, 6-6016-001,
6-6017-001
FABian Isolation Kits (mouse)
6-6501-001, 6-6504-001, 6-6505-001,
6-6507-001
Fab-TACS/Nano-TACS Agarose Column Starter Kits (mouse):
6-3301-002, 6-3304-002, 6-3305-002,
6-3307-002
Fab-TACS® Exosome Agarose Column Starter Kit (human)
6-3319-002, 6-3381-002
Fab-TACS Magnetic Microbead Starter Kit (human)
6-8000-101, 6-8000-103, 6-8000-104,
6-8000-106, 6-8000-107, 6-8000-108,
6-8000-109

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

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

All chemicals are potentially dangerous. They should only be handled by specially trained personnel.

3 Composition/Information on ingredients

3.2 Chemical characterization: Mixtures

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_2, 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:	-25 – -15 °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 characteristic 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:	colorless liquid
Odor:	odorless
Odor threshold:	no data available
pH:	7.3 – 7.5
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:	fully miscible
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

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.

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 Annnex 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 2.1 (from 12.06.2017)

The list of kits containing this product was updated.

Changes to Version 2.2 (from 21.01.2020)

The list of kits containing this product was updated.

Changes to Version 2.3 (from 09.06.2020)

The list of kits containing this product was updated.

Changes to Version 2.4 (from 13.01.2021)

The list of kits containing this product was updated.