

# Safety Data Sheet

according to regulation (EC) No 1907/2006

Product name: Buffer R (10x)  
Version: 3.1  
Revision date: 01.02.2017

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

### 1.1 Product identifiers

**Product Name:** Buffer R (10x), Strep-Tactin® Regeneration Buffer with HABA  
**Product Number:** 2-1002-xxx  
**Part of kits:** 2-1002-001

**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]**  
Eye Irrit. 2 (H319), Skin Irrit. 2 (H315)

### 2.2 Label elements

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

**Hazard pictogram:**



**Signal word:** Warning

**Hazard statements:**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.

**Precautionary statements:**

P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.  
EUH phrases: 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]:**

Component	CAS-No	%	Classification acc. to (EC) 1972/2008
Tris	77-86-1	12 %	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H315, H319, H335
EDTA (Ethylenedia- minetetraacetic acid)	6381-92-6	~ 2 %	Acute Tox. 4 (inhal.), STOT RE 2 H332, H372
HABA 2-(4-Hydroxyphenylazo) benzoic acid	1634-82-8	~ 0,3 %	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3 H315, H319, H335

**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>	orange-red liquid
<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>	fully miscible
<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

No relevant information available.

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### 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 (~12%) and HABA (~0,3%) may cause respiratory irritation (single exposure).

#### Specific target organ toxicity – repeated exposure

EDTA (~2%) may cause respiratory irritation (repeated exposure).

#### Aspiration hazard

No component is classified as an aspiration hazard.



## 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)

**This buffer was renamed!** Please note, neither the buffer composition nor the information on this safety data sheet has been changed. The buffer was formerly sold as "Strep-tag regeneration buffer R (10x)".

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