

Material Safety Data Sheet

acc. to ISO/DIS 11014

Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	Buffer W (Washing buffer 20x)
Product Number	Component of following Kits: Strep-tag HRP Detection Kit 2-1502-000 Strep-tag AP Detection Kit 2-1503-001
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition/Information on Ingredients

These products contain proprietary ingredients that include general salts and buffers at low concentrations. They contain hazardous ingredients at low concentration.

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
NaCl	26	7647-14-5	oral rat: 3000 mg/kg oral mouse: 4000 mg/kg
Tris(hydroxymethyl)amino-methan (Tris); pH 7.4	12	77-86-1	oral rat: 5900 mg/kg
Water	Rest	7732-18-5	NA

3. Hazards Identification

Inhalation:	Do not breath vapour.
Ingestion:	Ingestion may cause gastrointestinal irritation.
Skin contact:	Substance may cause slight skin irritation. May be adsorbed through the skin in harmful amounts.
Eye contact:	Moderately irritating to the eyes.
Sensitization:	None.

Material Safety Data Sheet



1. Product Name:	
2. Manufacturer:	
3. Product Use:	

4. Key Safety Information:	
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5. Hazardous Ingredients:	
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6. Physical and Chemical Properties:	
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7. Environmental Information:	
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8. Regulatory Information:	
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9. Other Information:	
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Section	Content
1. Identifizierung	
2. Gefährdungsbeurteilung	
3. Zusammensetzung	
4. Erste Hilfe	
5. Brandgefahr	
6. Reaktivität	
7. Umweltgefahren	
8. Sonstige Angaben	

1. Identifizierung

2. Gefährdungsbeurteilung

3. Zusammensetzung

4. Erste Hilfe

5. Brandgefahr

6. Reaktivität

7. Umweltgefahren

8. Sonstige Angaben



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Version 1

1. Product and Company Information

Product Name	Buffer SI, blocking and incubation buffer, 10 x concentrated
Product Number	Component of following Kits: Strep-tag HRP Detection Kit 2-1502-000 Strep-tag AP Detection Kit 2-1503-000
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition / Information on Ingredients

These products contain proprietary ingredients that include general salts, buffers, and ingredients at low concentrations.

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
Gentamycin Sulfate	less than 0.01	1405-41-0	oral rat: 5000 mg/kg oral mouse: 11269 mg/kg
Thimerosal	less than 0.01	54-64-8	oral rat: 98 mg/kg oral mouse: 91 mg/kg
Bovine Serum Albumin** (BSA)	0.5	None	NA
Tween 20	less than 0.01	9005-64-5	oral mouse: 33000 mg/kg intravenous mouse: 1420 mg/kg
Tris(hydroxymethyl)amino-methane (Tris), pH 7.4	6.1	77-86-1	oral rat: 5900 mg/kg intravenous rat: 2602 mg/kg
NaCl	14.6	7647-14-5	oral rat: 3000 mg/kg oral mouse: 4000 mg/kg
Water	Rest		

** Bovin Serum Albumin is an animal protein without additives.

3. Hazards Identification

Inhalation:	Do not breath vapour.
Ingestion:	Ingestion may cause gastrointestinal irritation.
Skin contact:	Substance may cause slight skin irritation. May be adsorbed through the skin in harmful amounts.
Eye contact:	Moderately irritating to the eyes.
Sensitization:	None.



1. Product and Company Information

Section	Information
1.1	Product Name
1.2	Manufacturer
1.3	Address
1.4	City
1.5	State
1.6	Zip
1.7	Country
1.8	Phone
1.9	Fax
1.10	E-mail
1.11	Website
1.12	Product Use
1.13	Product Form
1.14	Product Weight
1.15	Product Volume
1.16	Product Density
1.17	Product Temperature
1.18	Product pH
1.19	Product Viscosity
1.20	Product Solubility
1.21	Product Stability
1.22	Product Shelf Life
1.23	Product Storage
1.24	Product Disposal
1.25	Product Recycling
1.26	Product Reuse
1.27	Product Safety
1.28	Product Hazards
1.29	Product Precautions
1.30	Product First Aid
1.31	Product Spills
1.32	Product Cleanup
1.33	Product PPE
1.34	Product Training
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1.37	Product SDS
1.38	Product TSD
1.39	Product MSD
1.40	Product OSHA
1.41	Product EPA
1.42	Product DOT
1.43	Product IATA
1.44	Product ICAO
1.45	Product IATA/ICAO
1.46	Product IATA/ICAO/MSD
1.47	Product IATA/ICAO/MSD/SDS
1.48	Product IATA/ICAO/MSD/SDS/TSD
1.49	Product IATA/ICAO/MSD/SDS/TSD/MSD
1.50	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA
1.51	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA
1.52	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT
1.53	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA
1.54	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO
1.55	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO/MSD
1.56	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO/MSD/SDS
1.57	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO/MSD/SDS/TSD
1.58	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO/MSD/SDS/TSD/MSD
1.59	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO/MSD/SDS/TSD/MSD/OSHA
1.60	Product IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA/DOT/IATA/ICAO/MSD/SDS/TSD/MSD/OSHA/EPA

Material Safety Data Sheet



1. Identifizierung	
2. Gefährdungsbeurteilung	
3. Zusammensetzung	
4. Expositionskontrollmaßnahmen	
5. Umweltschutz	
6. Entsorgung	
7. Transport	
8. Sonstige Informationen	

Die Angaben sind ausschließlich für die Identifizierung des Produktes und die Ermittlung möglicher Gefahren. Sie sind keine Empfehlung für die Verwendung des Produktes und stellen keine Garantie für die Richtigkeit der Angaben dar. Die Angaben sind ohne Gewähr zu verstehen und können ohne vorherige Ankündigung geändert werden.

Die Angaben sind ausschließlich für die Identifizierung des Produktes und die Ermittlung möglicher Gefahren. Sie sind keine Empfehlung für die Verwendung des Produktes und stellen keine Garantie für die Richtigkeit der Angaben dar. Die Angaben sind ohne Gewähr zu verstehen und können ohne vorherige Ankündigung geändert werden.

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Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	Control protein, recombinant Strep-tag II fusion protein
Product Number	A component of following Kits: Strep-tag HRP Detection Kit 2-1502-000 Strep-tag AP Detection Kit 2-1503-000
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition/Information on Ingredients

Hazardous Ingredients (specific)	amount	CAS #	LD ₅₀
Control protein, recombinant Strep-tag II fusion protein	24 µg	none	NA

Control protein (recombinant Strep-tag II fusion protein) 27-kDa protein originally isolated from the jellyfish *Aequorea victoria*. This control protein is lyophilized (freeze-dried), highly pure, and for R&D use only.

3. Hazards Identification

Inhalation:	NA
Ingestion:	NA
Skin contact:	NA
Eye contact:	NA
Sensitization:	None

4. First Aid Measures

General information:	No special measures required.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation persists, call a physician.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Call for a doctor immediately. Do not induce vomiting without medical advice.
After ingestion:	Induce vomiting and call for medical help.

Material Safety Data Sheet

MSDS 10000-1000-1000



1. Product Name
10000-1000-1000

2. Supplier Name
10000-1000-1000

3. Product Description
10000-1000-1000

4. Hazardous Information
10000-1000-1000

5. Other Information
10000-1000-1000

Material Safety Data Sheet



1. Product Identification
2. Hazardous Properties
3. Composition
4. Physical Properties
5. Safety
6. Other Information

Material Safety Data Sheet

acc. to ISO/DIS 11014

Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	AP substrate, BCIP (5-bromo-4-chloro-3-indolylphosphate p-toluidine salt)
Product Number	Component of the Strep-tag AP Detection Kit (Cat # 2-1503-000)
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition/Information on Ingredients

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
BCIP (5-bromo-4-chloro-3-indolylphosphate p-toluidine salt)	5	6578-06-9	N/A
Dimethylformamide (DMF)	95	68-12-2	oral rat: 2800 mg/kg oral mouse: 2900 mg/kg
Volume 1 ml			

3. Hazards Identification

NFPA ratings (scale 0-4):	Health = 1; Fire = 1; Reactivity = 0
Principle routes of exposure:	Ingestion, inhalation, skin and/or eye contact.
Inhalation:	May cause irritation of respiratory tract.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact:	Substance may cause slight skin irritation. May be adsorbed through the skin in harmful amounts. Chronic exposure may cause dermatitis.
Eye contact:	Moderately irritating to the eyes.
Chronic:	May act as a carcinogen.

4. First Aid Measures

After inhalation:	Supply fresh air; consult doctor in case of complaints. If breathing is difficult, give oxygen.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation persists, call a physician.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Call for a doctor immediately. Do not induce vomiting without medical advice.

Material Safety Data Sheet

MSDS 1000 10/10



1. Identification

Product Name: _____

Supplier: _____

Product Code: _____

Revision: _____

Date: _____

Version: _____

Material Safety Data Sheet



Section	Content
1. Identification	Product Name: ... CAS No.: ... Molecular Weight: ...
2. Hazard Identification	Hazard Class: ... Signal Word: ...
3. Composition	Ingredients: ...
4. First Aid	Inhalation: ... Ingestion: ... Skin Contact: ... Eye Contact: ...
5. Fire and Explosion	Flammability: ... Explosive Limits: ...
6. Reactivity	Reactivity: ...
7. Physical Properties	Appearance: ... Boiling Point: ... Melting Point: ...
8. Environmental	Biodegradability: ... Persistence: ...
9. Transport	UN Number: ... Hazard Class: ...
10. Regulatory	REACH: ... GHS: ...
11. Other Information	Notes: ...

Material Safety Data Sheet

acc. to ISO/DIS 11014

Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	Chromogen, NBT (nitroblue tetrazolium chloride) in DMF
Product Number	Component of the Strep-tag AP Detection Kit (Cat # 2-1503-000)
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition/Information on Ingredients

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
NBT (nitroblue tetrazolium chloride)	1-5	298-83-9	N/A
Dimethylformamide (DMF)	95	68-12-2	oral rat: 2800 mg/kg oral mouse: 2900 mg/kg oral rabbit: 5000 mg/kg skin rabbit: 4720 mg/kg
Water	Rest		
Volume 1 ml			

3. Hazards Identification

NFPA ratings (scale 0-4):	Health = 1; Fire = 1; Reactivity = 0
Principle routes of exposure:	Ingestion, inhalation, skin and/or eye contact.
Inhalation:	May cause irritaton of respiratory tract.
Ingestion:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Skin contact:	Substance may cause slight skin irritation. May be adsorbed through the skin in harmful amounts. Chronic exposure may cause dermatitis.
Eye contact:	Moderately irritating to the eyes.
Sensitization:	None.



1. Product Name	
2. Hazard Identification	
3. Composition/Information on Ingredients	
4. First Aid Measures	
5. Fire and Explosion Data	

Table 1: Summary of Data

Category	Value
A	10
B	20
C	30
D	40
E	50
F	60
G	70
H	80
I	90
J	100

Table 2: Detailed Data

Item	Quantity	Price	Total
1	10	10	100
2	20	20	400
3	30	30	900
4	40	40	1600
5	50	50	2500
6	60	60	3600
7	70	70	4900
8	80	80	6400
9	90	90	8100
10	100	100	10000

Table 3: Final Summary

Section	Value
Section 1	100
Section 2	200
Section 3	300
Section 4	400
Section 5	500
Section 6	600
Section 7	700
Section 8	800
Section 9	900
Section 10	1000

11. **Technische Informationen**

Frage	Antwort
11.1. Frage	
11.2. Frage	
11.3. Frage	
11.4. Frage	
11.5. Frage	
11.6. Frage	
11.7. Frage	
11.8. Frage	
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11.98. Frage	
11.99. Frage	
1200. Frage	

Material Safety Data Sheet

acc. to ISO/DIS 11014

Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	Buffer ER AP Reaction Buffer
Product Number	Component of following Kits: Strep-tag AP Detection Kit 2-1503-000
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition/Information on Ingredients

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
NaCl	8.2	7647-14-5	oral rat: 3000 mg/kg oral mouse: 4000 mg/kg
Tris(hydroxymethyl)amino methan (Tris)	6.1	77-86-1	oral rat: 5900 mg/kg intravenous rat: 2602 mg/kg
MgSO ₄ x 7 H ₂ O	4.1	10034-99-8	NA
Water	Rest	7732-18-5	NA
pH 9.0			

3. Hazards Identification

Inhalation:	Do not breath vapour.
Ingestion:	Ingestion may cause gastrointestinal irritation.
Skin contact:	Substance may cause slight skin irritation. May be adsorbed through the skin in harmful amounts.
Eye contact:	Moderately irritating to the eyes.
Sensitization:	None.

4. First Aid Measures

General information:	No special measures required.
After inhalation:	Supply fresh air; consult doctor in case of complaints.
After skin contact:	Immediately wash with water and soap and rinse thoroughly. If skin irritation persists, call a physican.
After eye contact:	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing:	Call for a doctor immediately. Do not induce vomiting without medical advice.
After ingestion:	Induce vomiting and call for medical help.

Material Safety Data Sheet



1. Product Name

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2. Hazard Identification

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3. Composition and Information

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4. First Aid Measures

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5. Fire Fighting Measures

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6. Accidental Release Measures

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7. Handling and Storage

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8. Exposure Controls and Personal Protection

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9. Physical and Chemical Properties

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10. Stability and Reactivity

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11. Toxicological Information

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12. Ecological Information

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13. Disposal Considerations

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14. Transport Information

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15. Regulatory Information

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16. Other Information

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Material Safety Data Sheet

MSDS 1000



1. Identifikation
2. Gefährdungen
3. Zusammensetzung
4. Erste Hilfe
5. Brand- und Explosionsgefahr
6. Reaktionen
7. Freisetzung
8. Exposition
9. Toxikologie
10. Umweltschutz
11. Entsorgung
12. Transport
13. Sonstige Angaben

Material Safety Data Sheet

acc. to ISO/DIS 11014

Last date of revision: January 05
Version 1

1. Product and Company Information

Product Name	Strep-Tactin AP conjugate
Product Number	2-1503-001 Component of following Kits: Strep-tag HRP Detection Kit: 2-1503-000
Company	IBA GmbH Rudolf-Wissell-Str. 28 37079 Goettingen Germany
Technical Phone	+49-551-50672(0)- 160
Fax	+49-551-50672- 181
Email	info@iba-go.com
Web	www.iba-go.com
Emergency Phone	+49-551-19240 (Poison Information Center Goettingen, Germany, 24h)

2. Composition / Information on Ingredients

These products contain proprietary ingredients that include general salts, buffer, and ingredients at low concentrations.

Hazardous Ingredients (specific)	%	CAS #	LD ₅₀
Strep-Tactin* AP conjugate	0.1	None	NA
Bovine Serum Albumin** (BSA)	1.0	None	NA
NaCl	0.6	7647-14-5	oral rat: 3000 mg/kg oral mouse: 4000 mg/kg
ZnCl ₂	less than 0.01	7646-85-7	NA
MgSO ₄ x 7 H ₂ O	less than 0.01	10034-99-8	NA
Tris(hydroxymethyl)amino-methan (Tris)	0.6	77-86-1	oral rat: 5900 mg/kg intravenous rat: 2602 mg/kg
NaN ₃	0.1	26628-22-8	oral rat 27 mg/kg dermal rabbit 20 mg/kg
Water (pH 8.0)	Rest		

* Strep-Tactin is a muterin of streptavidin and Strep-Tactin AP (Alkaline Phosphatase) conjugate does not contain any toxic or hazardous compounds. Alkaline Phosphatase conjugate it self and its products of degradation are not toxic.

However, the chemical, physical, and toxicological properties of the Strep-Tactin AP conjugate may not, as yet, have been thoroughly investigated. Therefore, we recommend the use of gloves, lab coats, and eye protection when working with these or any chemical reagents. IBA GmbH assumes no liability for damage resulting from handling or contact with these products.

** Bovin Serum Albumin is Bovine serum albumin is an animal protein without additives.

Material Safety Data Sheet
GHS 055001 10/14
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1. Product Identification

Product Name	
Other Names	
Manufacturer	
Supplier	

2. Hazardous Ingredients

Ingredient Name	Concentration	Hazard

3. Physical Properties

Appearance	
Color	
Odor	
Boiling Point	
Melting Point	
Density	
Specific Gravity	
Flash Point	
Auto-ignition Temperature	
Decomposition Temperature	

4. Environmental Data

Biodegradability	
Biodegradation Half-life	
Biodegradation Pathway	
Biodegradation Conditions	

Material Safety Data Sheet



1. Identification of the substance	
Product Name	
Chemical Name	
Other Names	
Manufacturer	
Supplier	
Product Code	
Version	
Revision	
Effective Date	
Expiration Date	
Classification	
Other Information	

2. Hazardous Properties

3. Composition

4. Physical Properties

5. Environmental Data

6. Toxicological Data

7. Ecotoxicological Data

8. Other Information

