

03.04.2023	Kit Components
Product code	Description
A05084	S100A12 homodimer (human) ELISA kit
Components:	
A03084	S100A12 homodimer (human) Biotin-labelled Antibody
A04410	Streptavidin Poly_HRP Tracer
A06084	S100A12 homodimer (human) Standard
A07083	Biotin-free ELISA Buffer
A08084	S100A12 homodimer (human) precoated 96-well Strip Plate
A09034	HRP Substrate Solution (TMB)
A12000	Tween 20
A17000	Wash Buffer
A22410	HRP Stop Solution
A10084	S100A12 homodimer (human) Quality Control



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: S100A12 homodimer (human) Biotin-labelled Antibody

Article number: A03084

1.2 Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.
 Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Bertin Technologies
 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE
 Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms Void Signal word Void **Hazard statements** H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures Description: Mixture of substances listed below with nonhazardous additions.

 Dangerous components:
 ≥0.25-<2.5%</td>

 CAS: 26628-22-8
 sodium azide
 ≥0.25-<2.5%</td>

 EINECS: 247-852-1
 Acute Tox. 2, H300; Acute Tox. 1, H310; STOT RE 2, H373; Aquatic Acute
 Aquatic Acute

 Additional information:
 For the wording of the listed hazard phrases refer to section 16.
 Eine Constraints

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Trade name: S100A12 homodimer (human) Biotin-labelled Antibody

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4 First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements. **Information about storage in one common storage facility:** Not required.

Further information about storage conditions: None.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

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Trade name: S100A12 homodimer (human) Biotin-labelled Antibody

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8 Exposure controls/perso	nal protection
8.1 Control parameters	
	t design of technical facilities: No further data; see item 7.
	that require monitoring at the workplace:
CAS: 26628-22-8 sodium azid	le
WEL Short-term value: 0.3 mg/i	m ³
Long-term value: 0.1 mg/r	n³
(as NaN₃), Sk	
Additional information: The	lists valid during the making were used as basis.
8.2 Exposure controls	
Personal protective equipme	
	enic measures: Wash hands before breaks and at the end of work.
Respiratory protection: Not Protection of hands:	required.
	mpermeable and resistant to the product/ the substance/ the preparation.
	ommendation to the glove material can be given for the product/ the preparation.
chemical mixture.	
Selection of the glove material	l on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves	
	gloves does not only depend on the material, but also on further marks of quality an
	nanufacturer. As the product is a preparation of several substances, the resistance of th
	culated in advance and has therefore to be checked prior to the application.
Penetration time of glove m	naterial ne has to be found out by the manufacturer of the protective gloves and has to b
observed.	he has to be found out by the manufacturer of the protective gloves and has to b
Eye protection: Goggles reco	ommended during refilling
	······································
Physical and chemical p	roperties
	· ·
9.1 Information on basic phys General Information	sical and chemical properties
Appearance:	
Form:	Fluid
Colour	

Form: Colour: Odour: Odour threshold:	Fluid Colourless Odourless Not determined.
pH-value:	Not determined.
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Biotin-labelled Antibody

		(Contd. of page 3)
Vapour pressure at 20 °C:	23 hPa	
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient: n-octanol/w	ater: Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content:		
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)

Dermal LD50 20 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met. **Additional toxicological information:**

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

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Trade name: S100A12 homodimer (human) Biotin-labelled Antibody

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12 Ecological information

12.1 Toxicity

Aquatic toxicity: CAS: 26628-22-8 sodium azide

EC50 96h (static) 0.35 mg/l (Pseudokirchneriella subcapitata)

LC50 96h 5.46 mg/l (Pimephales promelas)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number	
ADR, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	C C C C C C C C C C C C C C C C C C C
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol	
and the IBC Code	Not applicable.
Transport/Additional information:	
ΙΑΤΑ	
Remarks:	When sold in quantities of less than or equal to 1mL or 1g with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per

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Trade name: S100A12 homodimer (human) Biotin-labelled Antibody

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IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity not regulated

UN "Model Regulation":

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

Relevant phrases

H300 Fatal if swallowed. H310 Fatal in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Contact: tech@bertin-bioreagent.com Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: Streptavidin Poly_HRP Tracer

Article number: A04410 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Bertin Technologies
 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE
 Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008



Repr. 1A H360D May damage the unborn child.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms



Signal word Danger

Hazard-determining components of labelling:

N-Methyl-2-pyrrolidone

Hazard statements

H360D May damage the unborn child.

Precautionary statements

P201 Obtain special instructions before use.

- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional information:

Restricted to professional users.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

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Trade name: Streptavidin Poly_HRP Tracer

vPvB: Not applicable.

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3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

EINECS: 212-828-1 N-Methyl-2-pyrrolidone

Repr. 1A, H360D; (1) Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335 Additional information: For the wording of the listed hazard phrases refer to section 16. ≥0.3-≤2.5%

4 First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling Open and handle receptacle with care.

Information about fire - and explosion protection: Keep respiratory protective device available.

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Trade name: Streptavidin Poly_HRP Tracer

(Contd. of page 2)

7.2 Conditions for safe storage, including any incompatibilities Storage:

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep container tightly sealed. Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work.

Store protective clothing separately.

Respiratory protection: Not required.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Fluid	
Colour:	Red	
Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value:	Not determined.	

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Trade name: Streptavidin Poly HRP Tracer

		(Contd. of page 3)
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. e: 102 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure:	Not determined.	
Density at 20 °C: Relative density Vapour density Evaporation rate	1.04 g/cm ³ Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Not miscible or difficult to mix.	
Partition coefficient: n-octanol/water: Not determined.		
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content:		
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification:

N-Methyl-2-pyrrolidone

Oral LD50 3,598 mg/kg (rat)

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Trade name: Streptavidin Poly_HRP Tracer

Devreel LDEQ & 000 mer/line (rephint)	(Contd. of page 4)
Dermal LD50 8,000 mg/kg (rabbit) Primary irritant effect:	
Skin corrosion/irritation Based on available data, the classification criteria are not met.	
Serious eye damage/irritation Based on available data, the classification criteria are not met.	
Respiratory or skin sensitisation Based on available data, the classification criteria are not met.	
Additional toxicological information:	
CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
Germ cell mutagenicity Based on available data, the classification criteria are not met.	
Carcinogenicity Based on available data, the classification criteria are not met.	
Reproductive toxicity	
May damage the unborn child.	
STOT-single exposure Based on available data, the classification criteria are not met.	
STOT-repeated exposure Based on available data, the classification criteria are not met. Aspiration hazard Based on available data, the classification criteria are not met.	
Aspiration nazaru based on available data, the classification chiena are not met.	
12 Ecological information	
12.1 Toxicity	
Aquatic toxicity:	
N-Methyl-2-pyrrolidone	
LC50 96h >500 mg/l (Leuciscus idus)	
832 mg/l (Lepomis macrochirus)	
EC50 48h 4,897 mg/l (Daphnia magna)	
IC50 72h >500 mg/l/72h (Desmodesmus subspicatus)	
12.2 Persistence and degradability No further relevant information available.	
12.3 Bioaccumulative potential No further relevant information available.	
12.4 Mobility in soil No further relevant information available.	
Additional ecological information:	
General notes:	
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water	
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage	system.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage 12.5 Results of PBT and vPvB assessment	system.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage <u>12.5 Results of PBT and vPvB assessment</u> PBT: Not applicable.	system.
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage 12.5 Results of PBT and vPvB assessment	system.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

14.1 UN-Number ADR, ADN, IMDG, IATA

not regulated

(Contd. on page 6)

GB -

Revision: 03.04.2023

Trade name: Streptavidin Poly_HRP Tracer

14.2 UN proper shipping name ADR, ADN, IMDG, IATA 14.3 Transport hazard class(es)	(Contd. of page 5)
ADR, ADN, IMDG, IATA Class <u>14.4 Packing group</u> ADR, IMDG, IATA	not regulated
14.5 Environmental hazards: 14.6 Special precautions for user	Not applicable. Not applicable.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	
Transport/Additional information:	
ΙΑΤΑ	
Remarks:	When sold in quantities of less than or equal to 1mL or 1g with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity
UN "Model Regulation":	not regulated

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU
Named dangerous substances - ANNEX I None of the ingredients is listed.
15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

Relevant phrases

H315 Causes skin irritation.

- H319 Causes serious eye irritation.
- H335 May cause respiratory irritation.

H360D May damage the unborn child.

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Trade name: Streptavidin Poly_HRP Tracer

(Contd. of	page
Contact: tech@bertin-bioreagent.com	
Abbreviations and acronyms:	
DR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International C	Carria
f Dangerous Goods by Road)	
MDG: International Maritime Code for Dangerous Goods	
ATA: International Air Transport Association	
SHS: Globally Harmonised System of Classification and Labelling of Chemicals	
INECS: European Inventory of Existing Commercial Chemical Substances	
LINCS: European List of Notified Chemical Substances	
CAS: Chemical Abstracts Service (division of the American Chemical Society)	
C50: Lethal concentration, 50 percent	
D50: Lethal dose, 50 percent	
'BT: Persistent, Bioaccumulative and Toxic	
PvB: very Persistent and very Bioaccumulative	
Skin Irrit. 2: Skin corrosion/irritation – Category 2	
ye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Repr. 1A: Reproductive toxicity – Category 1A	
TOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
Data compared to the previous version altered.	
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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: S100A12 homodimer (human) Standard

Article number: A06084 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Bertin Technologies 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms Void Signal word Void **Hazard statements** H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures Description: Mixture of substances listed below with nonhazardous additions.

(Contd. on page 2)

≥0.25-<2.5%

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Standard

(Contd. of page 1)

4 First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

(Contd. on page 3)

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Standard

(Contd. of page 2)

8 Exposure controls/personal protection 8.1 Control parameters Additional information about design of technical facilities: No further data; see item 7. Ingredients with limit values that require monitoring at the workplace: CAS: 26628-22-8 sodium azide WEL Short-term value: 0.3 mg/m³ Long-term value: 0.1 mg/m³ (as NaN₃), Sk Additional information: The lists valid during the making were used as basis. 8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: Wash hands before breaks and at the end of work. Respiratory protection: Not required. Protection of hands: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

eneral Information	
ppearance:	
Form:	Fluid
Colour:	Colourless
)dour:	Odourless
dour threshold:	Not determined.
H-value:	Not determined.
hange in condition	
lelting point/freezing point:	Undetermined.
itial boiling point and boiling ra	nge: Undetermined.

Merting point/reezing point.Ondetermined.Initial boiling point and boiling range:Undetermined.Flash point:Not applicable.Flammability (solid, gas):Not applicable.Decomposition temperature:Not determined.Auto-ignition temperature:Product is not selfigniting.Explosive properties:Product does not present an explosion hazard.Explosion limits:Not determined.Lower:Not determined.Upper:Not determined.

(Contd. on page 4)

GB -

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Standard

	(Contd. of page	3)
Vapour pressure at 20 °C:	23 hPa	
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient: n-octanol/w	ater: Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content:		
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)

Dermal LD50 20 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met. **Additional toxicological information:**

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

(Contd. on page 5)

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Standard

(Contd. of page 4)

12 Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 26628-22-8 sodium azide

EC50 96h (static) 0.35 mg/l (Pseudokirchneriella subcapitata)

LC50 96h 5.46 mg/l (Pimephales promelas)

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

<u>14.1 UN-Number</u> ADR, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	,
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpol	
and the IBC Code	Not applicable.
Transport/Additional information:	
ΙΑΤΑ	
Remarks:	When sold in quantities of less than or equal to 1mL or 1g with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Standard

(Contd. of page 5)

IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity not regulated

UN "Model Regulation":

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

Relevant phrases

H300 Fatal if swallowed. H310 Fatal in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Contact: tech@bertin-bioreagent.com Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: Biotin-free ELISA Buffer

Article number: A07083

1.2 Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.
 Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Bertin Technologies
 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE
 Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms Void Signal word Void **Hazard statements** H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures Description: Mixture of substances listed below with nonhazardous additions.

 Dangerous components:
 CAS: 26628-22-8
 sodium azide
 ≥0.25-<2.5%</td>

 EINECS: 247-852-1
 Acute Tox. 2, H300; Acute Tox. 1, H310; STOT RE 2, H373; Aquatic Acute
 Aquatic Acute

 Additional information:
 For the wording of the listed hazard phrases refer to section 16.

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Printing date 03.04.2023

Trade name: Biotin-free ELISA Buffer

Revision: 03.04.2023

(Contd. of page 1)

4 First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: -20 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

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Printing date 03.04.2023

Trade name: Biotin-free ELISA Buffer

Revision: 03.04.2023

h	(Contd. of pag agredients with limit values that require monitoring at the workplace:
C	AS: 26628-22-8 sodium azide
W	EL Short-term value: 0.3 mg/m³
	Long-term value: 0.1 mg/m ³
	(as NaN₃), Sk
	Additional information: The lists valid during the making were used as basis.
8.	2 Exposure controls
Ρ	ersonal protective equipment:
	General protective and hygienic measures: Wash hands before breaks and at the end of work.
	Respiratory protection: Not required.
	Protection of hands:
-	The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
[Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/
	chemical mixture.
	Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
	Material of gloves
	The selection of the suitable gloves does not only depend on the material, but also on further marks of quality a varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of glove material can not be calculated in advance and has therefore to be checked prior to the application.
	Penetration time of glove material
	The exact break through time has to be found out by the manufacturer of the protective gloves and has to observed.
	Eye protection: Not required.

9 Physical and chemical properties		
9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: Odour threshold:	chemical properties Solid Whitish Uncharacteristic. Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : 1,461 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not determined.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure:	Not applicable.	
Density: Relative density	Not determined. Not determined.	(Contd. on page 4)
		(Conta. on page 4)

Revision: 03.04.2023

Trade name: Biotin-free ELISA Buffer

		(Contd. of page 3)
Vapour density Evaporation rate	Not applicable. Not applicable.	
Solubility in / Miscibility with water:	Soluble.	
Partition coefficient: n-octan	ol/water: Not determined.	
Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	
Solvent content:		
Solids content:	100.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)

Dermal LD50 20 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. Reproductive toxicity Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

(Contd. on page 5)

Printing date 03.04.2023

Trade name: Biotin-free ELISA Buffer

Revision: 03.04.2023

(Contd. of page 4)

12 Ecological information

12.1 Toxicity

Aquatic toxicity: CAS: 26628-22-8 sodium azide

EC50 96h (static) 0.35 mg/l (Pseudokirchneriella subcapitata)

LC50 96h 5.46 mg/l (Pimephales promelas)

12.2 Persistence and degradability No further relevant information available.

<u>12.3 Bioaccumulative potential</u> No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number			
ADR, ADN, IMDG, IATA	not regulated		
14.2 UN proper shipping name	-		
ADR, ADN, IMDG, IATA	not regulated		
14.3 Transport hazard class(es)	-		
ADR, ADN, IMDG, IATA			
Class	not regulated		
14.4 Packing group	-		
ADR, IMDG, IATA	not regulated		
14.5 Environmental hazards:	Not applicable.		
14.6 Special precautions for user	Not applicable.		
14.7 Transport in bulk according to Annex II of Marpol			
and the IBC Code	Not applicable.		
Transport/Additional information:			
ΙΑΤΑ			
Remarks:	When sold in quantities of less than or equal to 1mL or 1g with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per		

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: Biotin-free ELISA Buffer

(Contd. of page 5)

IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity not regulated

UN "Model Regulation":

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

Relevant phrases

H300 Fatal if swallowed. H310 Fatal in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Contact: tech@bertin-bioreagent.com Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.



Page 1/6

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: S100A12 homodimer (human) precoated 96-well Strip Plate

Article number: A08084 **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Bertin Technologies
 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE
 Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

<u>3.2 Chemical characterisation: Mixtures</u> Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

Printing date 03.04.2023

Revision: 03.04.2023

(Contd. of page 1)

Trade name: S100A12 homodimer (human) precoated 96-well Strip Plate

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up: Pick up mechanically.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special measures required. Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: -20 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 3)

Printing date 03.04.2023

Trade name: S100A12 homodimer (human) precoated 96-well Strip Plate

(Contd. of page 2)

- GB

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Not required.

9 Physical and chemical proper	9 Physical and chemical properties		
9.1 Information on basic physical ar General Information Appearance: Form: Colour: Odour: Odour: Odour threshold:	nd chemical properties Solid According to product specification Characteristic Not determined.		
pH-value:	Not applicable.		
Change in condition Melting point/freezing point: Initial boiling point and boiling ran	Undetermined. ge: Undetermined.		
Flash point:	Not applicable.		
Flammability (solid, gas):	Not determined.		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product does not present an explosion hazard.		
Explosion limits: Lower: Upper:	Not determined. Not determined.		
Vapour pressure:	Not applicable.		
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not applicable. Not applicable.		
Solubility in / Miscibility with water:	Insoluble.		
Partition coefficient: n-octanol/water: Not determined.			
Viscosity: Dynamic: Kinematic:	Not applicable. Not applicable.	(Contd. on page 4)	

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) precoated 96-well Strip Plate

(Contd. of page 3)

Solvent content: Solids content:

100.0 %

9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met. **Carcinogenicity** Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

(Contd. on page 5)

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) precoated 96-well Strip Plate

(Contd. of page 4)

13 Disposal considerations

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

14 Transport information

14.1 UN-Number	
ADR, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpo	
and the IBC Code	Not applicable.
UN "Model Regulation":	not regulated

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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(Contd. on page 6)

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) precoated 96-well Strip Plate

Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.

(Contd. of page 5)



Page 1/6

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 01.03.2023

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

1.1 Product identifier

Trade name: HRP Substrate Solution (TMB)

Article number: A09034 **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Bertin Technologies 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The substance is not classified, according to the GB CLP regulation.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.1 Chemical characterisation: Substances CAS No. Description TMB substrate

4 First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

<u>4.2 Most important symptoms and effects, both acute and delayed</u> No further relevant information available.

(Contd. on page 2)

Printing date 03.04.2023

Trade name: HRP Substrate Solution (TMB)

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required. **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special measures required. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7. Ingredients with limit values that require monitoring at the workplace: Not required. Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls Personal protective equipment: General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Respiratory protection: Not required.

(Contd. on page 3)

GB

Revision: 01.03.2023

(Contd. of page 1)

Printing date 03.04.2023

Trade name: HRP Substrate Solution (TMB)

(Contd. of page 2)

Revision: 01.03.2023

Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling

9 Physical and chemical properties		
9.1 Information on basic physical and chemical properties General Information		
Appearance: Form: Colour: Odour: Odour threshold:	Fluid Not determined. Characteristic Not determined.	
pH-value:	Not determined.	
Change in condition Melting point/freezing point: Initial boiling point and boiling rang	Undetermined. e: Undetermined.	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Not determined.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure:	Not determined.	
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient: n-octanol/water: Not determined.		
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solids content:	0.0 %	(Contd. on page 4)

Printing date 03.04.2023

Revision: 01.03.2023

Trade name: HRP Substrate Solution (TMB)

9.2 Other information

No further relevant information available.

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

GB

(Contd. of page 3)

Printing date 03.04.2023

Revision: 01.03.2023

Trade name: HRP Substrate Solution (TMB)

(Contd. of page 4)

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number	
ADR, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name	
ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	C C
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpo	
and the IBC Code	Not applicable.
UN "Model Regulation":	not regulated

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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Contact: tech@bertin-bioreagent.com

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

Printing date 03.04.2023

Revision: 01.03.2023

Trade name: HRP Substrate Solution (TMB)

(Contd. of page 5)

IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.



Page 1/6

Safety data sheet according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 13.02.2023

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

1.1 Product identifier

Trade name: Tween 20

Article number: A12000 CAS Number: 9005-64-5 NLP Number: 500-018-3 **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Bertin Technologies 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **<u>1.4 Emergency telephone number:</u>** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The substance is not classified, according to the GB CLP regulation.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.1 Chemical characterisation: Substances CAS No. Description CAS: 9005-64-5 Polysorbate 20 Identification number(s) NLP Number: 500-018-3

4 First aid measures

4.1 Description of first aid measures General information: No special measures required.

(Contd. on page 2)

Printing date 03.04.2023

Revision: 13.02.2023

Trade name: Tween 20

(Contd. of page 1)

After inhalation: Supply fresh air; consult doctor in case of complaints.
 After skin contact: Generally the product does not irritate the skin.
 After eye contact: Rinse opened eye for several minutes under running water.
 After swallowing: If symptoms persist consult doctor.
 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. 5.2 Special hazards arising from the substance or mixture No further relevant information available. 5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special measures required. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Not required. Further information about storage conditions: None. Recommended storage temperature: 20 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters
 Additional information about design of technical facilities: No further data; see item 7.
 Ingredients with limit values that require monitoring at the workplace: Not required.
 Additional information: The lists valid during the making were used as basis.

(Contd. on page 3)

Printing date 03.04.2023

Revision: 13.02.2023

Trade name: Tween 20

(Contd. of page 2)

3.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures:
The usual precautionary measures are to be adhered to when handling chemicals.
Respiratory protection: Not required.
Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
varies from manufacturer to manufacturer.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

I chemical properties	
Highly viscous Light yellow Characteristic Not determined.	
Not determined.	
Undetermined. e: Undetermined.	
275 °C	
Not applicable.	
Not determined.	
Not determined.	
Product does not present an explosion hazard.	
Not determined. Not determined.	
Not determined.	
1.1 g/cm ³ Not determined. Not determined. Not determined.	
Fully miscible.	
: Not determined.	(C
	Highly viscous Light yellow Characteristic Not determined. Not determined. 275 °C Not applicable. Not determined. Not determined. Product does not present an explosion hazard. Not determined. Not determined.

Printing date 03.04.2023

Revision: 13.02.2023

(Contd. of page 2)

Trade name: Tween 20

Viscosity: Dynamic at 20 °C: Kinematic:	400 mPas Not determined.	(Conta, or page 3)
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met. LD/LC50 values relevant for classification:

CAS: 9005-64-5 Polysorbate 20

Oral LD50 38,900 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

(Contd. on page 5)

Printing date 03.04.2023

Trade name: Tween 20

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information 14.1 UN-Number ADR. ADN. IMDG. IATA not regulated 14.2 UN proper shipping name ADR, ADN, IMDG, IATA not regulated 14.3 Transport hazard class(es) ADR, ADN, IMDG, IATA Class not regulated 14.4 Packing group ADR, IMDG, IATA not regulated 14.5 Environmental hazards: Not applicable. Not applicable. 14.6 Special precautions for user 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable. **UN "Model Regulation":** not regulated

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU Named dangerous substances - ANNEX I Substance is not listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

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(Contd. on page 6)

Revision: 13.02.2023

(Contd. of page 4)

Printing date 03.04.2023

Trade name: Tween 20

Revision: 13.02.2023

(Contd. of page 5)

GR

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Contact: tech@bertin-bioreagent.com

Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.



Page 1/6

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 13.02.2023

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

1.1 Product identifier

Trade name: Wash Buffer

Article number: A17000 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Bertin Technologies
 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE
 Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

<u>3.2 Chemical characterisation: Mixtures</u> Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void **Additional information:** For the wording of the listed hazard phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures

General information: No special measures required.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

GB

Printing date 03.04.2023

Trade name: Wash Buffer

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.

5.2 Special hazards arising from the substance or mixture No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required. **6.2 Environmental precautions:**

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special measures required.

Information about fire - and explosion protection: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: -20 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information: The lists valid during the making were used as basis.

8.2 Exposure controls

Personal protective equipment:

General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection: Not required.

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Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties		
General Information		
Appearance:		
Form:	Fluid	
Colour:	Colourless Odourless	
Odour:	• • • • • • • • • • • • • • • • • • • •	
Odour threshold:	Not determined.	
pH-value at 20 °C:	7.4	
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density:	Not determined.	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
•		
Solubility in / Miscibility with water:	Fully miscible.	
water.	Tully misciple.	
Partition coefficient: n-octanol/water: Not determined.		
Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	

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		(Contd. of page 3)
Solvent content: Water:	60.0 %	
Solids content:	40.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met. Serious eye damage/irritation Based on available data, the classification criteria are not met. Respiratory or skin sensitisation Based on available data, the classification criteria are not met. Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

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Safety data sheet according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Trade name: Wash Buffer

13 Disposal considerations

13.1 Waste treatment methods

Recommendation Smaller quantities can be disposed of with household waste.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations. **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number	
ADR, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name	-
ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	not regulated
	not regulated
14.4 Packing group	
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex	II of Marpol
and the IBC Code	Not applicable.
UN "Model Regulation":	not regulated

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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Trade name: Wash Buffer

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Contact: tech@bertin-bioreagent.com Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.



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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: HRP Stop Solution

Article number: A22410

1.2 Relevant identified uses of the substance or mixture and uses advised against
 No further relevant information available.
 Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet
 Manufacturer/Supplier:
 Bertin Technologies
 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE
 Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 The product is not classified, according to the GB CLP regulation.

2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 Void Hazard pictograms Void Signal word Void Hazard statements Void Additional information: Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9. Safety data sheet available on request. 2.3 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 7664-93-9 sulphuric acid EINECS: 231-639-5 I Skin Corr. 1A, H314 Additional information: For the wording of the listed hazard phrases refer to section 16.

≥2.5-<5%

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Printing date 03.04.2023

Trade name: HRP Stop Solution

4 First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

8.1 Control parameters

Additional information about design of technical facilities: No further data; see item 7.

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Trade

Revision: 03.04.2023

ade name: HRP Stop Solution
(Contd. of page 2)
Ingredients with limit values that require monitoring at the workplace:
CAS: 7664-93-9 sulphuric acid
WEL Long-term value: 0.05* mg/m³
*mist: defined as thoracic fraction
Additional information: The lists valid during the making were used as basis.
8.2 Exposure controls
Personal protective equipment:
General protective and hygienic measures: Wash hands before breaks and at the end of work.
Respiratory protection: Not required.
Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the
chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and
varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the
glove material can not be calculated in advance and has therefore to be checked prior to the application.
Penetration time of glove material
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be
observed.
Eye protection: Goggles recommended during refilling

9 Physical and chemical properties

9.1 Information on basic physical and General Information Appearance:		
Form:	Liquid	
Colour:	Colourless	
Odour: Odour threshold:	Odourless Not determined.	
Odour inreshold:	Not determined.	
pH-value at 20 °C:	7	
Change in condition Melting point/freezing point: Initial boiling point and boiling range	0 °C e: 100 °C	
Flash point:	Not applicable.	
Flammability (solid, gas):	Not applicable.	
Decomposition temperature:	Not determined.	
Auto-ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined. Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density at 20 °C: Relative density Vapour density	1 g/cm³ Not determined. Not determined.	
		(Contd. on page 4)

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Trade name: HRP Stop Solution

Evaporation rate	Not determined.	(Contd. of page 3)
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient: n-octanol/wa	ater: Not determined.	
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content: Water:	95.0 %	
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met. **Additional toxicological information:**

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

12 Ecological information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

12.3 Bioaccumulative potential No further relevant information available.

12.4 Mobility in soil No further relevant information available.

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Trade name: HRP Stop Solution

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Additional ecological information: General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. **12.5 Results of PBT and vPvB assessment PBT:** Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging: Recommendation: Disposal must be made according to official regulations. Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number ADR, IMDG, IATA 14.2 UN proper shipping name ADR IMDG, IATA 14.3 Transport hazard class(es)	UN2796 UN2796 SULPHURIC ACID SULPHURIC ACID
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group	
ADR, IMDG	
ΙΑΤΑ	
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Hazard identification number (Kemler code):	80
EMS Number:	F-A,S-B
Segregation groups	(SGG1) Acids
Stowage Category	В
14.7 Transport in bulk according to Annex II of Mar	
and the IBC Code	Not applicable.
Transport/Additional information:	
ADR	
Limited quantities (LQ)	1L
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
Transport category	2
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Trade name: HRP Stop Solution

Tunnel restriction code	(Contd. of page 5) E
IMDG Limited quantities (LQ) Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
ΙΑΤΑ	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
Remarks:	When sold in quantities of less than or equal to 1mL or 1g with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per IATA 2.6.10.
UN "Model Regulation":	Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity UN 2796 SULPHURIC ACID, 8, II

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

Relevant phrases

H314 Causes severe skin burns and eye damage. **Contact:** tech@bertin-bioreagent.com **Abbreviations and acronyms:** ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association

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Trade name: HRP Stop Solution

GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Corr. 1A: Skin corrosion/irritation – Category 1A

* Data compared to the previous version altered.

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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2023

Revision: 03.04.2023

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

1.1 Product identifier

Trade name: S100A12 homodimer (human) Quality Control

Article number: A10084 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Laboratory reagent

1.3 Details of the supplier of the safety data sheet Manufacturer/Supplier: Bertin Technologies 10 bis avenue Ampère F-78180 Montigny-le-Bx FRANCE Tel: +33 1 39 30 60 00 - tech@bertin-bioreagent.com

Further information obtainable from: Technical Support of Bioreagent Department **1.4 Emergency telephone number:** During operating hours 09 am to 05 pm (Paris Time GMT+1) : +33 139 306 000

2 Hazards identification

2.1 Classification of the substance or mixture Classification according to Regulation (EC) No 1272/2008 Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects. 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. Hazard pictograms Void Signal word Void **Hazard statements** H412 Harmful to aquatic life with long lasting effects. **Precautionary statements** P273 Avoid release to the environment. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. 2.3 Other hazards Results of PBT and vPvB assessment **PBT:** Not applicable. vPvB: Not applicable.

3 Composition/information on ingredients

3.2 Chemical characterisation: Mixtures Description: Mixture of substances listed below with nonhazardous additions.

 Dangerous components:
 ≥0.25-<2.5%</td>

 CAS: 26628-22-8
 sodium azide
 ≥0.25-<2.5%</td>

 EINECS: 247-852-1
 Acute Tox. 2, H300; Acute Tox. 1, H310; STOT RE 2, H373; Aquatic Acute
 Aquatic Acute

 1, H400; Aquatic Chronic 1, H410
 Additional information: For the wording of the listed hazard phrases refer to section 16.

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Printing date 03.04.2023

Trade name: S100A12 homodimer (human) Quality Control

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(Contd. of page 1)

4 First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air; consult doctor in case of complaints.

After skin contact: Generally the product does not irritate the skin.

After eye contact: Rinse opened eye for several minutes under running water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions. **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

5.3 Advice for firefighters

Protective equipment: No special measures required.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Not required.

6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

7.1 Precautions for safe handling No special precautions are necessary if used correctly. **Information about fire - and explosion protection:** No special measures required.

7.2 Conditions for safe storage, including any incompatibilities

Storage:

Requirements to be met by storerooms and receptacles: No special requirements.

Information about storage in one common storage facility: Not required.

Further information about storage conditions: None.

Recommended storage temperature: +4 °C

7.3 Specific end use(s) No further relevant information available.

(Contd. on page 3)

Printing date 03.04.2023

Revision: 03.04.2023

Trade name: S100A12 homodimer (human) Quality Control

(Contd. of page 2)

8 Exposure controls/personal protection			
8.1 Control parameters Additional information about design of technical facilities: No further data; see item 7. Ingredients with limit values that require monitoring at the workplace:			
CAS: 26628-22-8 sodium azide			
WEL Short-term value: 0.3 mg/m³ Long-term value: 0.1 mg/m³ (as NaN₃), Sk Additional information: The lists valid during the making were used as basis.			
8.2 Exposure controls			
Personal protective equipment: General protective and hygienic measures: Wash hands before breaks and at the end of work. Respiratory protection: Not required. Protection of hands:			
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ th chemical mixture.			
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves			
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality an varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of th glove material can not be calculated in advance and has therefore to be checked prior to the application.			
The exact break through time has to be found out by the manufacturer of the protective gloves and has to b observed.			
Eye protection: Goggles recommended during refilling			
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality an varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of th glove material can not be calculated in advance and has therefore to be checked prior to the application. Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to b observed.			

9

Physical and chemical properties			
9.1 Information on basic physical and General Information Appearance: Form: Colour: Odour: Odour: Odour threshold:	chemical properties Fluid Colourless Odourless Not determined.		
pH-value:	Not determined.		
Change in condition Melting point/freezing point: Initial boiling point and boiling range	Undetermined. : Undetermined.		
Flash point:	Not applicable.		
Flammability (solid, gas):	Not applicable.		
Decomposition temperature:	Not determined.		
Auto-ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product does not present an explosion hazard.		
Explosion limits: Lower: Upper:	Not determined. Not determined.		

(Contd. on page 4)

Printing date 03.04.2023

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Trade name: S100A12 homodimer (human) Quality Control

		(Contd. of page 3)
Vapour pressure at 20 °C:	23 hPa	
Density: Relative density Vapour density Evaporation rate	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient: n-octanol/water: Not determined.		
Viscosity: Dynamic: Kinematic:	Not determined. Not determined.	
Solvent content:		
Solids content:	0.0 %	
9.2 Other information	No further relevant information available.	

10 Stability and reactivity

10.1 Reactivity No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions No dangerous reactions known.

10.4 Conditions to avoid No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

11.1 Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS: 26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)

Dermal LD50 20 mg/kg (rabbit)

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Based on available data, the classification criteria are not met.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met. **Additional toxicological information:**

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

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12 Ecological information

12.1 Toxicity

Aquatic toxicity:

CAS: 26628-22-8 sodium azide

EC50 96h (static) 0.35 mg/l (Pseudokirchneriella subcapitata)

LC50 96h 5.46 mg/l (Pimephales promelas)

12.2 Persistence and degradability No further relevant information available.

<u>12.3 Bioaccumulative potential</u> No further relevant information available.

12.4 Mobility in soil No further relevant information available.

Ecotoxical effects:

Remark: Harmful to fish

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Harmful to aquatic organisms

12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

13 Disposal considerations

13.1 Waste treatment methods Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation: Disposal must be made according to official regulations.

Recommended cleansing agents: Water, if necessary together with cleansing agents.

14 Transport information

14.1 UN-Number	
ADR, ADN, IMDG, IATA	not regulated
14.2 UN proper shipping name	-
ADR, ADN, IMDG, IATA	not regulated
14.3 Transport hazard class(es)	-
ADR, ADN, IMDG, IATA	
Class	not regulated
14.4 Packing group	, , , , , , , , , , , , , , , , , , ,
ADR, IMDG, IATA	not regulated
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Annex II of Marpo	
and the IBC Code	Not applicable.
Transport/Additional information:	
ΙΑΤΑ	
Remarks:	When sold in quantities of less than or equal to 1mL or 1g with an Excepted Quantity Code of E1, E2, E3, E4 or E5, this item meets the De Minimis Quantites exemption, per

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IATA 2.6.10. Therefore packaging does not have to be labeled as Dangerous Goods/Excepted Quantity not regulated

UN "Model Regulation":

15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. License is granted to make unlimited paper copies of this document for internal use only.

This Material Safety Data Sheet contains data necessary to ensure safety, health and environmental protection in working with chemical substances. The above-stated data match the contemporary state of knowledge and experience and are in coincidence with legal regulations currently in effect. This product is a laboratory reagent and can be solely used by persons with dédicated education at their own risk.

This product is designed for Research and Development use only. Not for drug for human nor veterinary or other uses. The manufacturer has no responsibility for damage caused by unsuitable use or by disrespecting the enclosed working instructions.

The above information is believed to be current and accurate; however, Bertin Technologies makes no warranty with respect to such information and assumes no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

Relevant phrases

H300 Fatal if swallowed. H310 Fatal in contact with skin. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Contact: tech@bertin-bioreagent.com Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 1: Acute toxicity – Category 1 STOT RE 2: Specific target organ toxicity (repeated exposure) - Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

* Data compared to the previous version altered.