

# 19.08.2020 Kit components

Product code Description		
1705050	HRP Color Blot Starter Kit 1	
Components:		
9701120	HRP Color Reagent B	
9701118	HRP Color Reagent A	
9702833	10X HRP Color Development Buffer	
1620172	Trans-Blot Transfer Pack, 0.2 μ PVDF Membrane	
1620112	Trans-Blot® Transfer Medium 0.2, 0.45 micron	
1610375	Precision Plus Protein Kaleidoscope Standards	
1706435	10x TBS	
1706606	Tween 20	
1705016	Blotting Grade Blocker	
1708241	Goat Anti-Rabbit IgG (H+L) HRP Conjugate	





Printing date 19.08.2020 Revision: 21.07.2020

Hazardous according to criteria of Safe Work Australia.

#### 1 Identification

- · Product identifier
- · Trade name: HRP Color Reagent B
- · Article number: 9701120, 10005364
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Pty. Ltd Level 5, 446 Victoria Road Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

· Classification of the substance or mixture

Acute Tox. 5 H333 May be harmful if inhaled.

- · Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms Not Applicable
- · Signal word Warning
- Hazard-determining components of labelling:

hydrogen peroxide solution

· Hazard statements

H333 May be harmful if inhaled.

· Precautionary statements

P304+P312 IF INHALED: Call a POISON CENTER/doctor if you feel unwell.

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: HRP Color Reagent B

(Contd. of page 1)

· Dangerous components:

7722-84-1 hydrogen peroxide solution

Ox. Lig. 1, H271 Skin Corr. 1A, H314 2.5-<5%

Acute Tox. 4, H302; Acute Tox. 4, H332

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

#### 4 First Aid Measures

- · 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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

# 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

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

Reference to other sections

No dangerous substances are released.

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

- · Handling
- Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.

(Contd. on page 3)





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: HRP Color Reagent B

(Contd. of page 2)

- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 7722-84-1 hydrogen peroxide solution

WES Long-term value: 1.4 mg/m³, 1 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures Wash hands before breaks and at the end of work.
- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- Penetration time of glove material

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

· Eve protection: Safety glasses

### 9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Fluid
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

**Melting point/freezing point:** 0 °C **Initial boiling point and boiling range:** 100 °C

· Flash point: Not applicable

Not determined.

· Flammability (solid, gaseous) Not applicable.

(Contd. on page 4)





Revision: 21.07.2020 Printing date 19.08.2020

Trade name: HRP Color Reagent B

	(Contd. of page
Decomposition temperature:	Not determined.
Self igniting:	Product is not selfigniting.
Explosive properties:	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.009 g/cm <sup>3</sup>
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	
Water:	Fully miscible
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
dynamic:	Not determined.
kinematic:	Not determined.
Solvent content:	
Water:	97.0 %
Other information	No further relevant information available.

# 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

# 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: HRP Color Reagent B

(Contd. of page 4)

### 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- Results of PBT and vPvB assessment
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number		
ADG, ADN, IMDG, IATA	Not Reguated	
UN proper shipping name		
ADG	Not Reguated	
	Not Reguated	
ADN, IMDG, IATA	Not Reguated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	Not Reguated	
Packing group		
ADG, IMDG, İATA	Not Reguated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	

Ago o



Page 6/7

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 21.07.2020

Trade name: HRP Color Reagent B

(Contd. of page 5)

· Transport in bulk according to Annex II of Marpol and the IBC Code		
g to the above specifications.		
	g to the above specifications.	

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

7722-84-1 hydrogen peroxide solution

S5, S6, S10

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

· Relevant phrases

H271 May cause fire or explosion; strong oxidiser.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H332 Harmful if inhaled.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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)

(Contd. on page 7)



Page 7/7

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 21.07.2020

Trade name: HRP Color Reagent B

(Contd. of page 6)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Ox. Liq. 1: Oxidizing liquids – Category 1
Acute Tox. 4: Acute toxicity - oral – Category 4
Acute Tox. 5: Acute toxicity - inhalation – Category 5
Skin Corr. 1A: Skin corrosion/irritation – Category 1A

\* Data compared to the previous version altered.





Printing date 19.08.2020 Revision: 22.07.2020

Not classified as hazardous according to criteria of Safe Work Australia.

### 1 Identification

- · Product identifier
- · Trade name: HRP Color Reagent A
- · Article number: 9701118, 10005352, 10005679
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
   Bio-Rad Laboratories Pty. Ltd
   Level 5, 446 Victoria Road
   Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia @bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

## 3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- · CAS No. Description: 111-46-6 2,2'-oxydiethanol
- · Identification number(s):
- · EC number: 203-872-2
- · Index number: 603-140-00-6
- · Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

(Contd. on page 2)





Printing date 19.08.2020 Revision: 22.07.2020

Trade name: HRP Color Reagent A

(Contd. of page 1)

· Dangerous components:

111-46-6 2,2'-oxybisethanol

Acute Tox. 4. H302

50-100%

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

### 4 First Aid Measures

- · 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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

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

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

- · Handling
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- ·Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.

(Contd. on page 3)





Printing date 19.08.2020 Revision: 22.07.2020

Trade name: HRP Color Reagent A

(Contd. of page 2)

- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 111-46-6 2,2'-oxybisethanol

WES Long-term value: 100 mg/m³, 23 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

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

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eve protection: Safety glasses

### 9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: Fluid
Colour: Colourless
Odour: Odourless
Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: -8.5 °C Initial boiling point and boiling range: undetermined

· Flash point: Not applicable Not determined.

· Flammability (solid, gaseous) Not applicable.

· Ignition temperature: 225 °C

• Decomposition temperature: Not determined.

(Contd. on page 4)





Printing date 19.08.2020 Revision: 22.07.2020

Trade name: HRP Color Reagent A

		(Contd. of page
Self igniting:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	0.7 Vol %	
Upper:	22 Vol %	
Vapour pressure at 20 °C:	0.03 hPa	
Density at 20 °C:	1.12 g/cm³	
Relative density	Not determined.	
Vapour density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Fully miscible	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
Solvent content:		
Organic solvents:	99.7 %	
Solids content:	0.3 %	_
Other information	No further relevant information available.	

# 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

# 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- · LD/LC50 values that are relevant for classification:

#### 111-46-6 2,2'-oxybisethanol

Oral LD50 12,565 mg/kg (rat)
Dermal LD50 11,890 mg/kg (rbt)

(Contd. on page 5)





Printing date 19.08.2020 Revision: 22.07.2020

Trade name: HRP Color Reagent A

(Contd. of page 4)

- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · 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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

14	rans	port	into	rmat	ion

· UN-Number

· ADG, ADN, IMDG, IATA Not Reguated

· UN proper shipping name

ADG Not Reguated
Not Reguated
ADN, IMDG, IATA Not Reguated

(Contd. on page 6)





Printing date 19.08.2020 Revision: 22.07.2020

Trade name: HRP Color Reagent A

		(Contd. of page 5)
· Transport hazard class(es)		
· ADG, ADN, IMDG, IATA · Class	Not Reguated	
· Packing group · ADG, IMDG, IATA	Not Reguated	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user	Not applicable.	
· Transport in bulk according to Annex II of M IBC Code	larpol and the Not applicable.	
· UN "Model Regulation":	Not Reguated	

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

111-46-6 2,2'-oxybisethanol S5, S6, S10

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Technical instructions (air):

Class	Share in %
NK	50-100

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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.

· Relevant phrases

H302 Harmful if swallowed.

· Department issuing SDS: Environmental Health and Safety.

(Contd. on page 7)



Page 7/7

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 22.07.2020

Trade name: HRP Color Reagent A

(Contd. of page 6)

#### · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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. 4: Acute toxicity - oral – Category 4

\* Data compared to the previous version altered.

۸11.





Printing date 19.08.2020 Revision: 21.07.2020

Not classified as hazardous according to criteria of Safe Work Australia.

### 1 Identification

- · Product identifier
- · Trade name: 10X HRP Color Development Buffer
- · Article number: 9702833
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
   Bio-Rad Laboratories Pty. Ltd
   Level 5, 446 Victoria Road
   Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

## 2 Hazard(s) Identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

## 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components: Not applicable.
- · Additional information For the wording of the listed hazard phrases refer to section 16.

### 4 First Aid Measures

- · Description of first aid measures
- · General information No special measures required.

(Contd. on page 2)



Page 2/6

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 21.07.2020

Trade name: 10X HRP Color Development Buffer

(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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

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

· 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

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

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

(Contd. on page 3)





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: 10X HRP Color Development Buffer

(Contd. of page 2)

- · Control parameters
- Components 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 that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

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

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

9 Physical and Chemical Properties		
Information on basic physical and che General Information Appearance:	emical properties	
- Арреагансе. - Form:	Fluid	
Colour:	Colourless	
· Odour:	Odourless	
Odour threshold:	Not determined.	
pH-value at 20 °C:	7.5	
Change in condition Melting point/freezing point: Initial boiling point and boiling rang	undetermined e: undetermined	
Flash point:	Not applicable Not determined.	
Flammability (solid, gaseous)	Not applicable.	
Decomposition temperature:	Not determined.	
Self igniting:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density at 20 °C:	1.17958 g/cm³	
Relative density	Not determined.	

(Contd. on page 4)





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: 10X HRP Color Development Buffer

	(Contd. of pa	ige 3)
· Vapour density · Evaporation rate	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: Water:	68.4 %	
Solids content: Other information	31.6 % No further relevant information available.	

# 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

### 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

# 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.

(Contd. on page 5)





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: 10X HRP Color Development Buffer

(Contd. of page 4)

- Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · **Recommendation**: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

ransport information	
UN-Number	
ADG, ADN, IMDG, IATA	Not Reguated
UN proper shipping name	
ADG	Not Reguated
	Not Reguated
ADN, IMDG, IATA	Not Reguated
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not Reguated
Packing group	
ADG, IMDG, IATA	Not Reguated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of M	larpol and the
IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Not Reguated

- AU

(Contd. on page 6)





Printing date 19.08.2020 Revision: 21.07.2020

Trade name: 10X HRP Color Development Buffer

(Contd. of page 5)

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

77-86-1 Tris(hydroxymethyl)aminomethane

S4

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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.

ΑU

Page 1/6

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 29.07.2020

Not classified as hazardous according to criteria of Safe Work Australia.

### 1 Identification

- · Product identifier
- · Trade name: Trans-Blot Transfer Pack, 0.2 μ PVDF Membrane
- · Article number:

1620172, 1620173, 1620174, 1620175, 1620176, 1620177, 1620255, 1704153, 1704154, 4307573, 10017732, 10017731

· CAS Number: 24937-79-9

Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Pty. Ltd Level 5, 446 Victoria Road

Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia @bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

# 3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- · CAS No. Description:

24937-79-9 Polyvinylidene fluoride

· Additonal information: For the wording of the listed risk phrases refer to section 16.

— Al



Page 2/6

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 29.07.2020

Trade name: Trans-Blot Transfer Pack, 0.2 μ PVDF Membrane

(Contd. of page 1)

### 4 First Aid Measures

- · 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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

No dangerous substances are released.

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

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

ΔΠ





Printing date 19.08.2020 Revision: 29.07.2020

Trade name: Trans-Blot Transfer Pack, 0.2 µ PVDF Membrane

(Contd. of page 2)

# 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls

· Vapour pressure:

· Relative density

· Density:

- · Personal protective equipment
- · General protective and hygienic measures

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

- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

9 Physical and Chemical Properties		
· Information on basic physical and c · General Information · Appearance: Form:	Solid.	
Colour: · Odour:	White Odourless	
Odour threshold:	Not determined.	
· pH-value:	Not applicable.	
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling ran</li> </ul>	230 °C nge: undetermined	
· Flash point:	Not applicable Not determined.	
· Flammability (solid, gaseous)	Product is not flammable.	
· Decomposition temperature:	Not determined.	
· Self igniting:	Not determined.	
· Explosive properties:	Not determined.	
· Explosion limits: Lower: Upper:	Not determined. Not determined.	

Not applicable.

Not determined

Not determined.

(Contd. on page 4)





Printing date 19.08.2020 Revision: 29.07.2020

Trade name: Trans-Blot Transfer Pack, 0.2 μ PVDF Membrane

		(Contd. of page 3)
· Vapour density · Evaporation rate	Not applicable. Not applicable.	
· Solubility in / Miscibility with Water:	Fully miscible	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity: dynamic: kinematic:	Not applicable. Not applicable.	
Solids content: Other information	100.0 % No further relevant information available.	

## 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

## 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

# 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 5)



Page 5/6

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 29.07.2020

Trade name: Trans-Blot Transfer Pack, 0.2 µ PVDF Membrane

(Contd. of page 4)

- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, ADN, IMDG, IATA	Not Reguated
UN proper shipping name	
ADG	Not Reguated
	Not Reguated
ADN, IMDG, IATA	Not Reguated
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not Reguated
Packing group	
ADG, IMDG, IATA	Not Reguated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Ma	rpol and the
IBC Code	Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Not Reguated

(Contd. on page 6)

ΔΙ





Printing date 19.08.2020 Revision: 29.07.2020

Trade name: Trans-Blot Transfer Pack, 0.2 µ PVDF Membrane

(Contd. of page 5)

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

Substance is listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

Substance is not listed.

· Australia: Priority Existing Chemicals

Substance is not listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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.

٩U





Printing date 19.08.2020 Revision: 24.07.2020

Hazardous according to criteria of Safe Work Australia.

### 1 Identification

- · Product identifier
- · Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron
- · Article number:

1620112, 1620146, 1620147, 1620150, 1620082, 1620168EDU, 1620086, 1620147EDU, 1620168, 1620252, 1620082EDU, 1620150EDU, 1620086EDU, 1620146EDU, 1620112EDU, 1620113, 1620114, 1620115, 1620116, 1620117, 1620145, 1620148, 1620167, 1620251, 1703202, 1620113EDU, 1620114EDU, 1620115EDU, 1620116EDU, 1620117EDU, 1620145EDU, 1620148EDU, 1620167EDU, 4307571, 4307574

CAS Number:

9004-70-0

· Index number:

603-037-01-3

- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Ptv. Ltd Level 5, 446 Victoria Road Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

· Classification of the substance or mixture

Flam. Sol. 1 H228 Flammable solid.

- · Label elements
- · GHS label elements The substance is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



GHS02

- · Signal word Danger
- · Hazard statements

H228 Flammable solid.

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

(Contd. on page 2)



Page 2/7

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 24.07.2020

Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron

(Contd. of page 1)

· **vPvB:** Not applicable.

# 3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- · CAS No. Description: 9004-70-0 nitrocellulose
- · Identification number(s):
- · Index number: 603-037-01-3
- · Additonal information: For the wording of the listed risk phrases refer to section 16.

## 4 First Aid Measures

- · 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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

## 6 Accidental Release Measures

· Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Wear protective clothing.

- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Ensure adequate ventilation.
- · 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.

- AU





Printing date 19.08.2020 Revision: 24.07.2020

Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron

(Contd. of page 2)

# 7 Handling and Storage

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: Keep ignition sources away Do not smoke.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures Wash hands before breaks and at the end of work.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

## 9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid.
Colour: White
Odour: Odourless
Odour threshold: Not determined.

· **pH-value:** Not applicable.

· Change in condition

Melting point/freezing point: undetermined Initial boiling point and boiling range: undetermined

· Flash point: Not applicable

· Flammability (solid, gaseous) Flammable.

(Contd. on page 4)



Printing date 19.08.2020 Revision: 24.07.2020

Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron

	(Contd. of page
Decomposition temperature:	Not determined.
· Self igniting:	Not determined.
· Explosive properties:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
Vapour pressure:	Not applicable.
· Density at 20 °C: · Relative density · Vapour density · Evaporation rate	1.65 g/cm³ 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.
Solids content: · Other information	100.0 % No further relevant information available.

# 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

## 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.

- Al





Printing date 19.08.2020 Revision: 24.07.2020

Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron

(Contd. of page 4)

# 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number	
ADG, IMDG, IATA	UN3270
UN proper shipping name	
ADG	3270 NITROCELLULOSE MEMBRANE FILTER
IMDG, IATA	NITROCELLULOSE MEMBRANE FILTER (less than 12.6)
	nitrogen by dry mass)
Transport hazard class(es)	
ADG, IMDG, IATA	
Class	4.1 Flammable solids, self-reactive substances and solides desensitised explosives.
Label	4.1
Packing group	
ADG, IMĎG, IATA	II .
Environmental hazards:	
Marine pollutant:	No

- AU





Revision: 24.07.2020 Printing date 19.08.2020

Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron

	(Contd. of page
· Special precautions for user	Warning: Flammable solids, self-reactive substances an solid desensitised explosives.
· Hazard identification number (Kemler code):	46
· EMS Number:	F-A,S-I
· Stowage Category	D
· Transport in bulk according to Annex II of Marpol an	nd the
IBC Code	Not applicable.
· Transport/Additional information:	
· ADG	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· IMDG	
· Limited quantities (LQ)	1 kg
· Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 g
	Maximum net quantity per outer packaging: 500 g
· UN "Model Regulation":	UN3270, NITROCELLULOSE MEMBRANE FILTER, 4. (6.1), I

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

Substance is listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

Substance is not listed.

- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 (Contd. on page 7)



Page 7/7

# Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 24.07.2020

Trade name: Trans-Blot® Transfer Medium 0.2, 0.45 micron

(Contd. of page 6)

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative Flam. Sol. 1: Flammable solids - Category 1

· \* Data compared to the previous version altered.





Printing date 19.08.2020 Revision: 25.07.2020

Hazardous according to criteria of Safe Work Australia.

#### 1 Identification

- · Product identifier
- · Trade name: Precision Plus Protein Kaleidoscope Standards
- · Article number: 1610375, 1610375S, 1610375EDU, 1610395, 10022172
- $\cdot \textit{Relevant identified uses of the substance or \textit{mixture and uses advised against} \\$

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Pty. Ltd Level 5, 446 Victoria Road Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

· Classification of the substance or mixture

Acute Tox. 5 H333 May be harmful if inhaled. Skin Corr. 3 H316 Causes mild skin irritation. Eye Irrit. 2A H319 Causes serious eye irritation.

- · Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



GHS07

- · Signal word Warning
- · Hazard statements

H333 May be harmful if inhaled. H316 Causes mild skin irritation. H319 Causes serious eye irritation.

· Precautionary statements

P264 Wash thoroughly after handling.
P280 Wear eye protection / face protection.

P304+P312 IF INHÁLED: Call a POISON CENTER/doctor if you feel unwell.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

(Contd. on page 2)





Printing date 19.08.2020 Revision: 25.07.2020

Trade name: Precision Plus Protein Kaleidoscope Standards

(Contd. of page 1)

P337+P313

If eye irritation persists: Get medical advice/attention.

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:		
56-81-5 glycerol	Acute Tox. 5, H303; Acute Tox. 5, H333	20-35%
	Acute Tox. 3, H311 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335	1-2.5%

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

## 4 First Aid Measures

- · 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. If symptoms persist, consult a doctor.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

# 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions:

Dilute with plenty of water.

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

(Contd. on page 3)



Page 3/8

## Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 25.07.2020

Trade name: Precision Plus Protein Kaleidoscope Standards

(Contd. of page 2)

· Methods and material for containment and cleaning up:

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

· Reference to other sections

No dangerous substances are released.

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

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 56-81-5 glycerol

WES Long-term value: 10 mg/m3

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- Penetration time of glove material

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

· Eye protection:

Safety glasses

(Contd. on page 4)





Printing date 19.08.2020 Revision: 25.07.2020

Trade name: Precision Plus Protein Kaleidoscope Standards

Tightly sealed goggles.

(Contd. of page 3)

Information on basic physical and chem	mical properties	
General Information	nical properties	
Appearance:		
Form:	Liquid	
Colour:	Violet	
Odour:	Rotten	
Odour threshold:	Not determined.	
рН-value at 20°С:	6.8	
Change in condition		
Melting point/freezing point:	undetermined	
Initial boiling point and boiling range:	: 100 °C	
Flash point:	> 100 °C	
Flammability (solid, gaseous)	Not applicable.	
Ignition temperature:	400 °C	
Decomposition temperature:	Not determined.	
Self igniting:	Product is not selfigniting.	
Explosive properties:	Not determined.	
Explosion limits:		
Lower:	0.9 Vol %	
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	
Partition coefficient: n-octanol/water:	Not determined.	
Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
Solvent content:		
Organic solvents:	30.0 %	
Water:	66.2 %	





Printing date 19.08.2020 Revision: 25.07.2020

Trade name: Precision Plus Protein Kaleidoscope Standards

(Contd. of page 4)

· Other information

No further relevant information available.

#### 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

### 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity

· LD/LC50	· LD/LC50 values that are relevant for classification:			
56-81-5 gi	56-81-5 glycerol			
Oral	LD50	4,090 mg/kg (mouse)		
		12,600 mg/kg (rat)		
Dermal	LD50	10,000 mg/kg (Rabbit)		
Inhalative	LC50/4 h	>30 mg/l (Rat)		
151-21-3	151-21-3 sodium dodecyl sulphate			
Oral	LD50	1,288 mg/kg (rat)		
Dermal	LD50	580 mg/kg (Rabbit)		

- · Primary irritant effect:
- · Skin corrosion/irritation Irritant to skin and mucous membranes.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

## 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

(Contd. on page 6)





Revision: 25.07.2020 Printing date 19.08.2020

Trade name: Precision Plus Protein Kaleidoscope Standards

(Contd. of page 5)

- · 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.

- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

IN-Number	
ADG, ADN, IMDG, IATA	Not Reguated
UN proper shipping name	
ADG	Not Reguated
	Not Reguated
ADN, IMDG, IATA	Not Reguated
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not Reguated
Packing group	
ADG, IMDG, IATA	Not Reguated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Ma	rpol and the
IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Not Reguated





Printing date 19.08.2020 Revision: 25.07.2020

Trade name: Precision Plus Protein Kaleidoscope Standards

(Contd. of page 6)

### 15 Regulatory information

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

· Australian l	nventory of Chemical Substances
7732-18-5	water
	glycerol
	sodium dodecyl sulphate
	Tris(hydroxymethyl)aminomethane
	Ethylenediaminetetraacetic acid disodium salt dihydrate
	sodium azide
115-39-9	tetrabromophenol blue
· Standard fo	r the Uniform Scheduling of Medicines and Poisons
77-86-1 Tris	s(hydroxymethyl)aminomethane S4
Australia: F	Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Technical instructions (air):

Class	Share in %
NK	20-35

- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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.

#### · Relevant phrases

H302 Harmful if swallowed.

H303 May be harmful if swallowed.

H311 Toxic in contact with skin.

H315 Causes skin irritation.

H318 Causes serious eve damage.

H333 May be harmful if inhaled.

H335 May cause respiratory irritation.

- · Department issuing SDS: Environmental Health and Safety.
- Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 (Contd. on page 8)



Page 8/8

## Safety Data Sheet according to WHS Regulations

Revision: 25.07.2020 Printing date 19.08.2020

#### Trade name: Precision Plus Protein Kaleidoscope Standards

(Contd. of page 7)

#### · Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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. 4: Acute toxicity - oral - Category 4

Acute Tox. 5: Acute toxicity - oral - Category 5

Acute Tox. 3: Acute toxicity - dermal – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2

Skin Corr. 3: Skin corrosion/irritation - Category 3

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

\* Data compared to the previous version altered.





Printing date 19.08.2020 Revision: 24.07.2020

Not classified as hazardous according to criteria of Safe Work Australia.

#### 1 Identification

- · Product identifier
- · Trade name: 10x TBS
- · Article number: 1706435, 9702901, 1706435EDU, 9703155
- · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Bio-Rad Laboratories Pty. Ltd Level 5, 446 Victoria Road

Gladesville NSW 2111 Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.
- · Dangerous components: Not applicable.
- · Additional information For the wording of the listed hazard phrases refer to section 16.

#### 4 First Aid Measures

- · Description of first aid measures
- · General information No special measures required.

(Contd. on page 2)



Page 2/6

## Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 24.07.2020

Trade name: 10x TBS

(Contd. of page 1)

- · After inhalation Supply fresh air; consult doctor in case of complaints.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: No special measures required.
- Methods and material for containment and cleaning up:

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

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

- · Handling
- Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

## 8 Exposure controls and personal protection

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

(Contd. on page 3)





Printing date 19.08.2020 Revision: 24.07.2020

Trade name: 10x TBS

(Contd. of page 2)

- · Control parameters
- Components 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 that were valid during the creation were used as basis.
- · Exposure controls

· Explosion limits: Lower:

· Density at 20 °C:

· Relative density

· Vapour pressure at 20 °C:

Upper:

- · Personal protective equipment
- · General protective and hygienic measures

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

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.

9 Physical and Chemical Properties

- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

· Information on basic physical and cher · General Information	nical properties
Appearance:	
Form:	Fluid
Colour:	Colourless
· Odour:	Odourless
· Odour threshold:	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 Not determined.
Flammability (solid, gaseous)	Not applicable.
Decomposition temperature:	Not determined.
Self igniting:	Product is not selfigniting.
Explosive properties:	Not determined.

Not determined. Not determined.

1.17958 g/cm<sup>3</sup>

Not determined.

23 hPa

(Contd. on page 4)





Printing date 19.08.2020 Revision: 24.07.2020

Trade name: 10x TBS

	(Contd. of pa	age
· Vapour density · Evaporation rate	Not determined. Not determined.	
· Solubility in / Miscibility with Water:	Fully miscible	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
dynamic:	Not determined.	
kinematic:	Not determined.	
· Solvent content:		
Water:	68.4 %	
Solids content:	31.6 %	
· Other information	No further relevant information available.	

## 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

#### 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

### 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · **Mobility in soil** No further relevant information available.

(Contd. on page 5)



Page 5/6

## Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 24.07.2020

Trade name: 10x TBS

(Contd. of page 4)

- Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

UN-Number		
ADG, ADN, IMDG, IATA	Not Reguated	
UN proper shipping name		
ADG	Not Reguated	
	Not Reguated	
ADN, IMDG, IATA	Not Reguated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	Not Reguated	
Packing group		
ADG, IMDG, IATA	Not Reguated	
Environmental hazards:		
Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II of I	Marpol and the	
IBC Code	Not applicable.	
UN "Model Regulation":	Not Reguated	

(Contd. on page 6)





Printing date 19.08.2020 Revision: 24.07.2020

Trade name: 10x TBS

(Contd. of page 5)

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

77-86-1 Tris(hydroxymethyl)aminomethane

S4

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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.

٨١١





Printing date 19.08.2020 Revision: 25.06.2020

Not classified as hazardous according to criteria of Safe Work Australia.

## 1 Identification

· Product identifier

· Trade name: Tween 20

· Article number: 1706606, 1705017, 1706531, 1705017EDU, 1706531EDU, 1706531XTU, 9702906, 9701059, 25116

• CAS Number: 9005-64-5 • NLP Number: 500-018-3

· Index number: 585-580-06-X

· Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Bio-Rad Laboratories Pty. Ltd

Level 5, 446 Victoria Road Gladesville NSW 2111

Australia

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia @bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

### 2 Hazard(s) Identification

· Classification of the substance or mixture

The substance is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

#### 3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- · CAS No. Description: 9005-64-5 Polysorbate 20

(Contd. on page 2)



Page 2/6

## Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 25.06.2020

Trade name: Tween 20

(Contd. of page 1)

· Identification number(s): · NLP Number: 500-018-3

· Index number: 585-580-06-X

· Additonal information: For the wording of the listed risk phrases refer to section 16.

#### 4 First Aid Measures

- · 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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

## 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

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

· Reference to other sections

No dangerous substances are released.

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

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification

(Contd. on page 3)





Printing date 19.08.2020 Revision: 25.06.2020

Trade name: Tween 20

(Contd. of page 2)

- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- Personal protective equipment
- General protective and hygienic measures

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

- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

Eye protection: Safety glasses

## 9 Physical and Chemical Properties

· Information on I	oasıc pnysıcaı and	i cnemicai p	properties
--------------------	--------------------	--------------	------------

· General Information

· Appearance:

Form: Liquid
Colour: Light yellow
Odour: Odourless
Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

**Melting point/freezing point:** undetermined **Initial boiling point and boiling range:** undetermined

· Flash point: 110 °C

· Flammability (solid, gaseous) Not applicable.

· Decomposition temperature: Not determined.

Self igniting: Not determined.Explosive properties: Not determined.

· Explosion limits:

**Lower:** Not determined.

(Contd. on page 4)





Printing date 19.08.2020 Revision: 25.06.2020

Trade name: Tween 20

		(Contd. of page 3
Upper:	Not determined.	
· Vapour pressure:	Not determined.	
· Density at 20 °C:	1.105 g/cm³	
· Relative density	Not determined.	
Vapour density	Not determined.	
· Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
Water:	Fully miscible	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity:		
dynamic at 20 °C:	250-450 mPas	
kinematic:	Not determined.	
Solids content:	0.0 %	
· Other information	No further relevant information available.	

## 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

#### 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

### 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.

(Contd. on page 5)





Printing date 19.08.2020 Revision: 25.06.2020

Trade name: Tween 20

(Contd. of page 4)

- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

JN-Number	W 4 B
ADG, ADN, IMDG, IATA	Not Reguated
UN proper shipping name	
ADG	Not Reguated
	Not Reguated
ADN, IMDG, IATA	Not Reguated
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not Reguated
Packing group	
ADG, IMDG, IATA	Not Reguated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Ma	rpol and the
IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
	(Contd. or





Printing date 19.08.2020 Revision: 25.06.2020

Trade name: Tween 20

(Contd. of page 5)

· UN "Model Regulation":

Not Requated

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

Substance is listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

Substance is not listed.

· Australia: Priority Existing Chemicals

Substance is not listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

EINECS: European Inventory of Existing Commercial 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.





Printing date 19.08.2020 Revision: 27.03.2020

Not classified as hazardous according to criteria of Safe Work Australia.

## 1 Identification

- · Product identifier
- · Trade name: Blotting Grade Blocker
- · Article number: 1705016, 1705016EDU, 1706404, 1706404EDU, 1706404XTU, 9702905
- CAS Number: 9000-71-9
- **EC number:** 232-555-1
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Laboratory chemicals
- -----
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  Bio-Rad Laboratories Pty. Ltd
  Level 5, 446 Victoria Road
  Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

#### 2 Hazard(s) Identification

- · Classification of the substance or mixture
  The substance is not classified, according to the Globally Harmonised System (GHS).
- · Label elements
- · GHS label elements Not Applicable
- · Hazard pictograms Not Applicable
- · Signal word Not Applicable
- · Hazard statements Not Applicable
- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

#### 3 Composition and Information on Ingredients

- · Chemical characterisation: Substances
- · CAS No. Description:

9000-71-9 Casein from bovine milk

- · Identification number(s):
- · EC number: 232-555-1

(Contd. on page 2)





Printing date 19.08.2020 Revision: 27.03.2020

Trade name: Blotting Grade Blocker

(Contd. of page 1)

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

## 4 First Aid Measures

- · 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 Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

No dangerous substances are released.

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

- · Handling
- · Precautions for safe handling No special measures required.
- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- ·Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

(Contd. on page 3)





Printing date 19.08.2020 Revision: 27.03.2020

Trade name: Blotting Grade Blocker

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

(Contd. of page 2)

### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- · Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

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

- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

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

· Eye protection: Safety glasses

9 Physical	and C	hemical	Prop	erties

· IIIIOIIIIalioii oii basic	priysical and chemical properties
General Information	

· Appearance:

Form:
Colour:
White
Odour:
Odour threshold:
Not determined.

Powder
White
Odourless
Not determined.

· Change in condition

**Melting point/freezing point:** undetermined **Initial boiling point and boiling range:** undetermined

· Flash point: Not applicable

· Flammability (solid, gaseous) Product is not flammable.

· Decomposition temperature: Not determined.

· Self igniting: Not determined.

· Explosive properties: Not determined.

· Explosion limits:

Lower: Not determined.
Upper: Not determined.

· Vapour pressure: Not applicable.

(Contd. on page 4)





Printing date 19.08.2020 Revision: 27.03.2020

Trade name: Blotting Grade Blocker

	(Contd. of page 3
· Density: · Relative density · Vapour density	Not determined Not determined. Not applicable.
· Evaporation rate	Not applicable.
· Solubility in / Miscibility with Water:	Soluble
· Partition coefficient: n-octanol/water:	Not determined.
· Viscosity: dynamic: kinematic:	Not applicable. Not applicable.
Solids content: · Other information	100.0 % No further relevant information available.

### 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

#### 11 Toxicological Information

- Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- · Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

#### 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.

(Contd. on page 5)





Printing date 19.08.2020 Revision: 27.03.2020

Trade name: Blotting Grade Blocker

(Contd. of page 4)

- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

JN-Number	
ADG, ADN, IMDG, IATA	Not Reguated
UN proper shipping name	
ADG	Not Reguated
	Not Reguated
ADN, IMDG, IATA	Not Reguated
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not Reguated
Packing group	
ADG, IMDG, IATA	Not Reguated
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Ma	rpol and the
IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Not Reguated

(Contd. on page 6)





Printing date 19.08.2020 Revision: 27.03.2020

Trade name: Blotting Grade Blocker

(Contd. of page 5)

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

Substance is listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

Substance is not listed.

· Australia: Priority Existing Chemicals

Substance is not listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- National regulations
- · Water hazard class: Generally not hazardous for water.
- · 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.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

· Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

EINECS: European Inventory of Existing Commercial 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.

AU





Printing date 19.08.2020 Revision: 28.07.2020

Hazardous according to criteria of Safe Work Australia.

#### 1 Identification

- · Product identifier
- · Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate
- · Article number: 1708241, 1721019, 1706515, 1706515EDU, 1708241EDU, 9701107
- · Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Bio-Rad Laboratories Pty. Ltd Level 5, 446 Victoria Road Gladesville NSW 2111

Australia

Tel 61-2-9914-2800 (1 800 224 354) Fax 61-2-9914-2888

- · Information department: sales.australia@bio-rad.com
- · Emergency telephone number: 61-2-9037-2994

#### 2 Hazard(s) Identification

· Classification of the substance or mixture

Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Label elements
- · GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS).
- · Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:

ProClin 300

· Hazard statements

H317 May cause an allergic skin reaction.

· Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves.

P362+P364 Take off contaminated clothing and wash it before reuse. P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P321 Specific treatment (see on this label).

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

(Contd. on page 2)





Printing date 19.08.2020 Revision: 28.07.2020

Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate

(Contd. of page 1)

- · Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### 3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

s components:	
disodium hydrogenorthophosphate	0.1-1%
Acute Tox. 3, H3TT Acute Tox. 4, H332	
ProClin 300 Consisting of: 55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (3%)	0.025-<0.06%
Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Chronic 1, H410	
	disodium hydrogenorthophosphate Acute Tox. 3, H311 Acute Tox. 4, H332 ProClin 300 Consisting of: 55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1) (3%) Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314

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

#### 4 First Aid Measures

- · Description of first aid measures
- · General information Immediately remove any clothing soiled by the product.
- · After inhalation

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact

Generally the product does not irritate the skin.

Immediately wash with water and soap and rinse thoroughly.

Immediately rinse with water.

- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Rinse mouth with water. Seek medical attention and appropriate follow-up.
- · Information for doctor
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire Fighting Measures

- · Extinguishing media
- · Suitable extinguishing agents Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)



Page 3/7

## Safety Data Sheet according to WHS Regulations

Printing date 19.08.2020 Revision: 28.07.2020

Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate

(Contd. of page 2)

- · Advice for firefighters
- · Protective equipment: Wear self-contained respiratory protective device.

#### 6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures Wear protective clothing.
- · Environmental precautions:

Dilute with plenty of water.

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

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.

Ensure adequate ventilation.

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

- · Handling
- · Precautions for safe handling

No special measures required.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls and personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters
- Components 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 that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment
- · General protective and hygienic measures

Immediately remove all soiled and contaminated clothing

(Contd. on page 4)





Printing date 19.08.2020 Revision: 28.07.2020

Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate

(Contd. of page 3)

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

- · Breathing equipment: Not necessary if room is well-ventilated.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- Penetration time of glove material

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

· Eye protection: Safety glasses

9 Physical and Chemical Propertion	Physical and Chemical Properties	
· Information on basic physical and che · General Information	mical properties	
· Appearance: Form:	Fluid	
Colour:	Colourless	
· Odour:	Odourless	
· Odour threshold:	Not determined.	
· pH-value at 20 °C:	6.8	
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range</li> </ul>	0 °C e: undetermined	
· Flash point:	Not applicable Not determined.	
· Flammability (solid, gaseous)	Not applicable.	
· Decomposition temperature:	Not determined.	
· Self igniting:	Product is not selfigniting.	
· Explosive properties:	Not determined.	
· 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	
· Partition coefficient: n-octanol/water:	Not determined.	
· Viscosity: dynamic:	Not determined.	
	(Contd. on page	

(Contd. on page 5)





Printing date 19.08.2020 Revision: 28.07.2020

Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate

(Contd. of page 4)

	(Conta. of page
kinematic:	Not determined.
· Solvent content: Water:	97.8 %
Solids content: Other information	2.1 % No further relevant information available.

### 10 Stability and Reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known

## 11 Toxicological Information

- · Information on toxicological effects
- · Acute toxicity
- Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eve damage/irritation No irritating effect.
- · Respiratory or skin sensitisation Sensitisation possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

## 12 Ecological Information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · 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.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 6)





Printing date 19.08.2020 Revision: 28.07.2020

Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate

· Other adverse effects No further relevant information available.

(Contd. of page 5)

## 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Dispose of waste in accordance to applicable national, regional, or local regulations.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

UN-Number ADG, ADN, IMDG, IATA	Not Reguated
	Not Neguated
UN proper shipping name	
ADG	Not Reguated
	Not Reguated
ADN, IMDG, IATA	Not Reguated
Transport hazard class(es)	
ADG, ADN, IMDG, IATA	
Class	Not Reguated
Packing group	
ADG, IMDG, IATA	Not Reguated
	Not Noguciou
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable.
Transport in bulk according to Annex II of Mai	rpol and the
BC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	Not Reguated

## 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Chemical Substances

7732-18-5 water

7647-14-5 sodium chloride

(Contd. on page 7)





Printing date 19.08.2020 Revision: 28.07.2020

Trade name: Goat Anti-Rabbit IgG (H+L) HRP Conjugate

(Contd. of page 6)

7558-79-4 disodium hydrogenorthophosphate

7558-80-7 Monosodium phosphate

· Standard for the Uniform Scheduling of Medicines and Poisons

7558-79-4 disodium hydrogenorthophosphate

S3, S4

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · National regulations
- · Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.
- · 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.

#### · Relevant phrases

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H410 Very toxic to aquatic life with long lasting effects.

- · Department issuing SDS: Environmental Health and Safety.
- · Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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

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

Acute Tox. 3: Acute toxicity - dermal - Category 3

Acute Tox. 4: Acute toxicity - inhalation - Category 4

Skin Corr. 1B: Skin corrosion/irritation - Category 1B

Skin Sens. 1: Skin sensitisation - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1

\* Data compared to the previous version altered.

ΑU