

# KIT COMPONENTS

Product name: TeSee Western Blot 32 tests

Product code: **3551169** 

Article number	Description	Quantity	Symbols
5169G	Grinding Tubes (35 tubes)	1	GHS07
5169A	A - Denaturing solution (20ml)	1	GHS07
5169B	B - Clarifying Solution (20 mL)	1	GHS02 GHS07 GHS05
5169E	BI - Blicking solution (10x) (10ml)	1	GHS07
5169C	Ab I - Anti-PrP MAb (10x) (8ml)	1	GHS07
5169D	Ab II - Conjugate (10x) (10ml)	1	GHS07
5144E	PK - Proteinase K (0.5 mL)	1	GHS08





according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

# 1 Identification

- · Product identifier
  - · Trade name: Grinding Tubes (35 tubes)
    - · Article number: 5169G
    - · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad

3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33 e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808

Phone: (800) 361-1808 Fax: (514) 334-0872

· Information department: Customer support. · Emergency telephone number: See item 16

### 2 Hazard identification

· Classification of the substance or mixture



Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Aquatic Acute 3 H402 Harmful to aquatic life.

Aguatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · Label elements
  - · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- **Hazard pictograms** GHS07
- · Signal word Warning
- Hazard-determining components of labeling:

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)

· Hazard statements

May cause an allergic skin reaction.

Harmful to aquatic life.

Harmful to aquatic life with long lasting effects.

(Contd. on page 2)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

### Trade name: Grinding Tubes (35 tubes)

(Contd. of page 1)

### · Precautionary statements

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

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves.

If on skin: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

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

#### · Classification system:

· NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

#### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
  - · **Description:** Mixture containing hazardous components.
  - Dangerous components:

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] ≤0.1% w/w and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

- Acute Toxicity (Oral) Category 3, H301; Acute Toxicity (Dermal) Category 2, H310; Acute Toxicity (Inhalation) Category 2, H330
- Skin Corrosion Category 1C, H314; Serious Eye Damage Category 1, H318
- Aquatic Acute 1, H400; Aquatic Chronic 1, H410
- Name of the Skin Sensitizer Category 1A, H317

# 4 First-aid measures

- Description of first aid measures
  - · 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: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Immediately call a doctor.
- · Information for doctor:
  - · Most important symptoms and effects, both acute and delayed No further relevant information available.

(Contd. on page 3)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Grinding Tubes (35 tubes)

(Contd. of page 2)

· 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.

- · 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.

Wear disposable gloves.

· Environmental precautions:

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

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

- · Methods and material for containment and cleaning up: Pick up mechanically.
- 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

Prevent formation of dust.

Follow good laboratory practices.

- · 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: No special requirements.
    - · 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/ Personal protection

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

(Contd. on page 4)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Grinding Tubes (35 tubes)

(Contd. of page 3)

#### · 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.

# · Personal protective equipment:

# General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

- · Breathing equipment: Suitable respiratory protective device recommended.
- · Protection of hands: Protective gloves
- · Eye protection: Safety glasses

ufammatian an basis ubveisel and als	
nformation on basic physical and che · General Information	emical properties
Appearance:	
· Form:	Water dispersible granulate
· Color:	Light
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not applicable.
· Change in condition	
Melting point/Melting range:	Undetermined.
· Boiling point/Boiling range:	Undetermined.
· Flash point:	Not applicable.
· Flammability (solid, gaseous):	Not determined.
· Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
· Upper:	Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not applicable.
· Evaporation rate	Not applicable.

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Grinding Tubes (35 tubes)

(Contd. of page 4)

· Solubility in / Miscibility with

· Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable.Kinematic: Not applicable.

· Solvent content:

· Organic solvents: 0.0 % · Water: 94.9 %

• 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:
      - on the skin: No irritant effect.
      - on the eye: No irritating effect.
    - · Sensitization: Sensitization possible through skin contact.
  - · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Grinding Tubes (35 tubes)

(Contd. of page 5)

# 12 Ecological information

- · Toxicity
  - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior 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 (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.

Avoid transfer into the environment.

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

UN-Number DOT/TDG, ADR, ADN, IMDG, IATA	Void	
<u> </u>		
UN proper shipping name DOT/TDG, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
· Class	Void	
Packing group		
DOT/TDG, ADR, IMDG, IATA	Void	
Environmental hazards:		
· Marine pollutant:	No	
Special precautions for user	Not applicable.	





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Grinding Tubes (35 tubes)

(Contd. of page 6)

Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": Void

# 15 Regulatory information

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

· Section 355 (extremely hazardous substances):

26628-22-8 | Sodium Azide

· Section 313 (Specific toxic chemical listings):

26628-22-8 | Sodium Azide

TSCA (Toxic Substances Control Act):

50-99-7 glucose

26628-22-8 | Sodium Azide

7732-18-5 water, distilled, conductivity or of similar purity

Canadian substance listings:

· Canadian Domestic Substances List (DSL)

50-99-7 glucose

26628-22-8 | Sodium Azide

7732-18-5 water, distilled, conductivity or of similar purity

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

· 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:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

(Contd. on page 8)



Page 8/8

# **Safety Data Sheet**

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Grinding Tubes (35 tubes)

(Contd. of page 7)

# · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation 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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

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





according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

# 1 Identification

- · Product identifier
  - · Trade name: A Denaturing solution (20ml)
    - · Article number: 5169A
    - · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad

3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33 e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808 Fax: (514) 334-0872

· Information department: Customer support. · Emergency telephone number: See item 16

### 2 Hazard identification

· Classification of the substance or mixture



Eye Irritation - Category 2A H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard statements

Causes serious eye irritation.

Harmful to aquatic life with long lasting effects.

· Precautionary statements

Wash thoroughly after handling.

Avoid release to the environment.

Wear protective gloves/protective clothing/eye protection/face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

(Contd. on page 2)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

### Trade name: A - Denaturing solution (20ml)

(Contd. of page 1)

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

#### · Classification system:

NFPA ratings (scale 0 - 4)

Health = 3

Fire = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 3

Fire = 1

Reactivity = 0

### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
  - · Description: Mixture without a chemical hazard.
  - Dangerous components:

IGEPAL® CA-630

5-10% w/w \*

- Aguatic Chronic 2, H411
- Acute Toxicity (Oral) Category 4, H302; Eye Irritation Category 2A, H319
- \* Actual concentration ranges are withheld as a trade secret.

# 4 First-aid measures

- Description of first aid measures
  - · After inhalation: Supply fresh air; consult doctor in case of complaints.
  - · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - · After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Immediately call a doctor.
- · 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.

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

(Contd. on page 3)



Page 3/8

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: A - Denaturing solution (20ml)

(Contd. of page 2)

#### Advice for firefighters

· Protective equipment: No special measures required.

# 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

**Environmental precautions:** 

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

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

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

· Methods and material for containment and cleaning up:

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

- 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: No special requirements.
    - · 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/ 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.

(Contd. on page 4)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: A - Denaturing solution (20ml)

(Contd. of page 3)

# · Personal protective equipment:

# · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

# · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Suitable respiratory protective device recommended.

Protection of hands: Protective gloves

Eye protection:

Safety glasses

Tightly sealed goggles

# 9 Physical and chemical properties

or mysical and shormout proporties	
Information on basic physical and che General Information Appearance:	emical properties
· Form:	Fluid
· Color:	Light
Odor:	Weak, characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
Change in condition  Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
· Flash point:	251 °C
· Flammability (solid, gaseous):	Not applicable.
Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	Not determined.
Upper:	Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density:	Not determined.
Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
<u> </u>	(Contd. on page 5)

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: A - Denaturing solution (20ml)

(Contd. of page 4)

· Solubility in / Miscibility with

· Water: Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not determined.Kinematic: Not determined.

· Solvent content:

· Organic solvents: 0.0 % · Water: 68.0 %

• 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:
      - on the skin: No irritant effect.
      - on the eye: Strong irritant with the danger of severe eye injury.
    - · Sensitization: No sensitizing effects known.
  - · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

- Carcinogenic categories
  - IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: A - Denaturing solution (20ml)

(Contd. of page 5)

# 12 Ecological information

- · Toxicity
  - · **Aquatic toxicity:** No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- **Ecotoxical effects:** 
  - · Remark: Harmful to fish
- · Additional ecological information:
  - · General notes:

Water hazard class 1 (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.

Avoid transfer into the environment.

Harmful to aquatic organisms

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

UN-Number		
· DOT/TDG, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name		
DOT/TDG, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
DOT, ADR, ADN, IMDG, IATA		
Class	Void	
Packing group		
DOT/TDG, ADR, IMDG, IATA	Void	

(Contd. on page 7)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: A - Denaturing solution (20ml)

(Contd. of page 6)

Environmental hazards: Marine pollutant:	No	
· Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	<b>t II of</b> Not applicable.	

UN "Model Regulation": Void

# 15 Regulatory information

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

· Sara	
· Section 355 (extremely hazardous substances):	
None of the ingredient is listed.	

Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

57-13-6	urea
	IGEPAL® CA-630
137-16-6	Sarkosyl

7732-18-5 water, distilled, conductivity or of similar purity

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)

All ingredients are listed.

· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

**IGEPAL® CA-630** 

· 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:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 8)



Page 8/8

# **Safety Data Sheet**

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: A - Denaturing solution (20ml)

(Contd. of page 7)

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation 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) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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





# Safety Data Sheet according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

# 1 Identification

- · Product identifier
  - · Trade name: B Clarifying Solution (20 mL)
    - · Article number: 5169B
    - · Application of the substance / the mixture Laboratory reagent or component.
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad

3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33

e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808

Phone: (800) 361-1808 Fax: (514) 334-0872

· Information department: Customer support. · Emergency telephone number: See item 16

### 2 Hazard identification

· Classification of the substance or mixture



Flame

Flammable Liquids - Category 3	H226	Flammable liquid and vapour.



Corrosion

Serious Eye Damage - Category 1 H318 Causes serious eye damage.



Acute Toxicity (Oral) - Category 4 H302 Harmful if swallowed.

Skin Irritation - Category 2 H315 Causes skin irritation.

Specific Target Organ Toxicity - Single Exposure - H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

#### · Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms GHS02, GHS05, GHS07

(Contd. on page 2)





# according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

### Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 1)

# · Signal word Danger

#### · Hazard-determining components of labeling:

butan-1-ol

#### · Hazard statements

Flammable liquid and vapour.

Harmful if swallowed.

Causes skin irritation.

Causes serious eye damage.

May cause respiratory irritation. May cause drowsiness or dizziness.

#### **Precautionary statements**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground and bond container and receiving equipment.

Use explosion-proof [electrical/ventilating/lighting] equipment.

Use non-sparking tools.

Take actions to prevent static discharges.

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

Wash thoroughly after handling.

Do not eat, drink or smoke when using this product.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If swallowed: Call a poison center/doctor if you feel unwell.

Immediately call a poison center/doctor.

Specific treatment (see on this label).

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Rinse mouth.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

In case of fire: Use for extinction: CO2, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

#### · Classification system:

#### NFPA ratings (scale 0 - 4)

Health = 3

Fire = 3

Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)

Health = \*3

Fire = 3

Reactivity = 0





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 2)

80-100% w/w \*

#### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
  - · Description: Mixture containing hazardous components.
  - Dangerous components:

71-36-3 butan-1-ol

- Flammable Liquids Category 3, H226
- Serious Eye Damage Category 1, H318
- Acute Toxicity (Oral) Category 4, H302; Skin Irritation Category 2, H315; Specific Target Organ Toxicity Single Exposure Category 3, H335-H336

# 4 First-aid measures

- · Description of first aid measures
  - · General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- · After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

Rinse opened eye for several minutes under running water. Then consult a doctor.

- · After swallowing: Immediately call a doctor.
- · 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.

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

- · 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.
- Environmental precautions: Do not allow product to reach sewage system or any water course.

(Contd. on page 4)

<sup>\*</sup> Actual concentration ranges are withheld as a trade secret.



Page 4/9

# **Safety Data Sheet**

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 3)

#### · Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material.

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

#### Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

#### Conditions for safe storage, including any incompatibilities

- · Storage:
  - · Requirements to be met by storerooms and receptacles: No special requirements.
  - · Information about storage in one common storage facility: Not required.
  - · Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

# 8 Exposure controls/ 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:

#### 71-36-3 butan-1-ol

EL () Short-term value: C 30 ppm Long-term value: 15 ppm

- · Additional information: The lists that were valid during the creation were used as basis.
- · 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 skin.

Avoid contact with the eyes and skin.

• Breathing equipment: Suitable respiratory protective device recommended.

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 4)

Protection of hands: Protective gloves
Eye protection: Tightly sealed goggles

# 9 Physical and chemical properties

· Information on basic physical and chemical properties

**General Information** 

· Appearance:

· Form: Fluid
· Color: Blue
· Odor: Characteristic

· Change in condition

· Melting point/Melting range: Undetermined.

· Boiling point/Boiling range: > 34 °C

· Flash point: 35 °C

· Ignition temperature: 340 °C

· **Auto igniting:** Product is not selfigniting.

• **Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor

mixtures are possible.

· Explosion limits:

• **Lower:** 1.5 Vol % • **Upper:** 9.4 Vol %

· Vapor pressure at 20 °C: 6.7 hPa

Density: Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

· Solvent content:

Organic solvents: 99.99 %

• 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.

(Contd. on page 6)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 5)

· 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:

#### 71-36-3 butan-1-ol

Oral	LD50	790 mg/kg (rat)
Dermal	LD50	3400 mg/kg (rabbit)
Inhalative	LC50/4 h	8000 mg/l (rat)

- · Primary irritant effect:
  - · on the skin: Irritant to skin and mucous membranes.
  - on the eve: Strong irritant with the danger of severe eve injury.
- · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- · Carcinogenic categories
  - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

# 12 Ecological information

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





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 6)

# 13 Disposal considerations

- · Waste treatment methods
  - · Recommendation:

Must be specially treated adhering to official regulations.

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

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

UN-Number · DOT/TDG · ADR, IMDG, IATA	UN1120 1120	
UN proper shipping name · ADR · IMDG, IATA	1120 BUTANOLS, mixture BUTANOLS, mixture	
Transport hazard class(es)		
· DOT/TDG (Transport dangerous goods):		
· Class · Label	3 Flammable liquids 3	
· ADR		
· Class · Label	3 (F1) Flammable liquids 3	
· IMDG, IATA		
· Class · Label	3 Flammable liquids 3	

(Contd. on page 8)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 7)

· Environmental hazards:

· Marine pollutant:

No

· Special precautions for user

Warning: Flammable liquids

Hazard identification number (Kemler code): 30

· EMS Number: F-E,S-D

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code

Not applicable.

UN "Model Regulation":

UN1120, BUTANOLS, mixture, 3, III

### 15 Regulatory information

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

· Section 355 (extremely hazardous substances):

None of the ingredient is listed.

· Section 313 (Specific toxic chemical listings):

71-36-3 butan-1-ol

· TSCA (Toxic Substances Control Act):

71-36-3 butan-1-ol

62625-28-9 Bleu de Bromophenol

- Canadian substance listings:
  - · Canadian Domestic Substances List (DSL)

All ingredients are listed.

Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

Canadian Ingredient Disclosure list (limit 1%)

All ingredients are listed.

· National regulations:

Class	Share in %
NK	100.0

· 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.

(Contd. on page 9)



Page 9/9

# Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: B - Clarifying Solution (20 mL)

(Contd. of page 8)

# · Department issuing SDS:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

# · Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation 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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

# 1 Identification

- · Product identifier
  - · Trade name: BI Blicking solution (10x) (10ml)
    - · Article number: 5169E
    - · Application of the substance / the mixture In vitro diagnostic medical device or component. Laboratory reagent or component.
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad 3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33 e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808 Fax: (514) 334-0872

· Information department: Customer support. · Emergency telephone number: See item 16

### 2 Hazard identification

· Classification of the substance or mixture



Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Aguatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

· GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard-determining components of labeling:

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)

· Hazard statements

May cause an allergic skin reaction.

Harmful to aquatic life.

(Contd. on page 2)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

# Trade name: BI - Blicking solution (10x) (10ml)

(Contd. of page 1)

Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

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

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves.

If on skin: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

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

#### Classification system:

# NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

# 3 Composition/Information on ingredients

#### · Chemical characterization: Mixtures

· **Description:** Mixture containing hazardous components.

· Danger	· Dangerous components:			
56-81-5	glycerol	10-30% w/w *		
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)  Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) – Category 2, H310; Acute Toxicity (Inhalation) - Category 2, H330  Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Sensitizer - Category 1A, H317	≤0.1% w/w		

<sup>\*</sup> Actual concentration ranges are withheld as a trade secret.

#### 4 First-aid measures

#### · Description of first aid measures

#### · 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: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)



Page 3/8

Safety Data Sheet according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: BI - Blicking solution (10x) (10ml)

(Contd. of page 2)

- · After swallowing: Immediately call a doctor.
- · 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.

- 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.

Wear disposable gloves.

Environmental precautions:

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

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). 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

- · 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: No special requirements.
    - · Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions: None.

(Contd. on page 4)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: BI - Blicking solution (10x) (10ml)

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

(Contd. of page 3)

# 8 Exposure controls/ 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

EL () 10\* 3\*\* mg/m³

\*mist; \*\*mist, resirable

EV () 10 mg/m<sup>3</sup>

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Suitable respiratory protective device recommended.

- Protection of hands: Protective gloves
- · Eye protection: Safety glasses

# 9 Physical and chemical properties

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

· Form: Fluid

· Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:
 Boiling point/Boiling range:
 Undetermined.
 Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 400 °C

· **Decomposition temperature:** Not determined.

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: BI - Blicking solution (10x) (10ml)

	(Contd. of page
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	0.9 Vol %
· Upper:	Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Insoluble.
· Partition coefficient (n-octanol	/water): Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	30.0 %
· Water:	39.3 %
· 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:
    - · Primary irritant effect:
      - on the skin: No irritant effect.on the eye: No irritating effect.
    - · Sensitization: Sensitization possible through skin contact.

(Contd. on page 6)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: BI - Blicking solution (10x) (10ml)

(Contd. of page 5)

#### · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

#### · Carcinogenic categories

# · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

# · NTP (National Toxicology Program)

None of the ingredients is listed.

# 12 Ecological information

- · Toxicity
  - Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 (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.

Avoid transfer into the environment.

- · 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 be specially treated adhering to official regulations.
- **Uncleaned packagings:** 
  - · Recommendation: Disposal must be made according to official regulations.

#### **14 Transport information**

- · UN-Number
  - · DOT/TDG, ADR, ADN, IMDG, IATA Void

(Contd. on page 7)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: BI - Blicking solution (10x) (10ml)

		(Contd. of pag
UN proper shipping name DOT/TDG, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
Packing group · DOT/TDG, ADR, IMDG, IATA	Void	
Environmental hazards:  · Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Void	

# 15 Regulatory information

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

· Section 355 (extremely hazardous substances):			
None of the	None of the ingredient is listed.		
·S	ection 313 (Specific toxic chemical listings):		
None of the	None of the ingredients is listed.		
· TSC	A (Toxic Substances Control Act):		
56-81-5	glycerol		
7647-14-5	sodium chloride		
7558-79-4	disodium hydrogenorthophosphate		
7732-18-5	water, distilled, conductivity or of similar purity		
· Can	Canadian substance listings:		
· C	· Canadian Domestic Substances List (DSL)		
56-81-5	56-81-5 glycerol		

Canadian Substance nstrings.			
• (	· Canadian Domestic Substances List (DSL)		
56-81-5	glycerol		
7647-14-5	sodium chloride		
7558-79-4	disodium hydrogenorthophosphate		
7732-18-5	water, distilled, conductivity or of similar purity		
• (	· Canadian Ingredient Disclosure list (limit 0.1%)		
None of the ingredients is listed.			
· Canadian Ingredient Disclosure list (limit 1%)			

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

(Contd. on page 8)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: BI - Blicking solution (10x) (10ml)

(Contd. of page 7)

### · National regulations:

Class	Share in %
NK	30.0

· 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:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

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





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

# 1 Identification

- · Product identifier
  - · Trade name: Ab I Anti-PrP MAb (10x) (8ml)
    - · Article number: 5169C
    - · Application of the substance / the mixture
      In vitro diagnostic medical device or component.
      Laboratory reagent or component.
- · Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad 3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33 e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808 Fax: (514) 334-0872

· Information department: Customer support. · Emergency telephone number: See item 16

### 2 Hazard identification

Classification of the substance or mixture



Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Aguatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- · Hazard pictograms GHS07
- · Signal word Warning
- · Hazard-determining components of labeling:

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)

· Hazard statements

May cause an allergic skin reaction.

Harmful to aquatic life.

(Contd. on page 2)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

# Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

(Contd. of page 1)

Harmful to aquatic life with long lasting effects.

### · Precautionary statements

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

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves.

If on skin: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

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

#### Classification system:

#### NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

# 3 Composition/Information on ingredients

#### · Chemical characterization: Mixtures

· **Description:** Mixture containing hazardous components.

· Dangero	· Dangerous components:			
56-81-5	glycerol	10-30% w/w *		
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)  Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) – Category 2, H310; Acute Toxicity (Inhalation) - Category 2, H330  Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Sensitizer - Category 1A, H317	≤0.1% w/w		

<sup>\*</sup> Actual concentration ranges are withheld as a trade secret.

#### 4 First-aid measures

#### · Description of first aid measures

#### · 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: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)



Page 3/8

## **Safety Data Sheet**

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

(Contd. of page 2)

- · After swallowing: Immediately call a doctor.
- · 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.

- 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.

Wear disposable gloves.

Environmental precautions:

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

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). 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

- 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: No special requirements.
    - · Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions: None.

(Contd. on page 4)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

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

(Contd. of page 3)

## 8 Exposure controls/ 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

EL () 10\* 3\*\* mg/m³

\*mist; \*\*mist, resirable

EV () 10 mg/m<sup>3</sup>

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Suitable respiratory protective device recommended.

- Protection of hands: Protective gloves
- · Eye protection: Safety glasses

## 9 Physical and chemical properties

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

· Form: Fluid

· Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range: Undetermined.Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

• Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 400 °C

· **Decomposition temperature:** Not determined.

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

	(Contd. of pa
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits:	
· Lower:	0.9 Vol %
· Upper:	Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density:	Not determined.
· Relative density	Not determined.
· Vapor density	Not determined.
Evaporation rate	Not determined.
· Solubility in / Miscibility with	
· Water:	Insoluble.
Partition coefficient (n-octano	I/water): Not determined.
· Viscosity:	
· Dynamic:	Not determined.
· Kinematic:	Not determined.
· Solvent content:	
· Organic solvents:	30.0 %
· Water:	39.3 %
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:
    - · Primary irritant effect:
      - · on the skin: No irritant effect. · on the eye: No irritating effect.
    - · Sensitization: Sensitization possible through skin contact.

(Contd. on page 6)



Safety Data Sheet according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

(Contd. of page 5)

Page 6/8

## · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Irritant

· Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
  - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 (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.

Avoid transfer into the environment.

- · 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 be specially treated adhering to official regulations.
- **Uncleaned packagings:** 
  - · Recommendation: Disposal must be made according to official regulations.

#### **14 Transport information**

- · UN-Number
  - · DOT/TDG, ADR, ADN, IMDG, IATA Void

(Contd. on page 7)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

		(Contd. of pag
· UN proper shipping name · DOT/TDG, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
Packing group DOT/TDG, ADR, IMDG, IATA	Void	
Environmental hazards: · Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· S	· Section 355 (extremely hazardous substances):		
None of the	None of the ingredient is listed.		
· S	· Section 313 (Specific toxic chemical listings):		
None of the	None of the ingredients is listed.		
· TSC	· TSCA (Toxic Substances Control Act):		
56-81-5	glycerol		
7647-14-5	sodium chloride		
7558-79-4	disodium hydrogenorthophosphate		
7732-18-5	water, distilled, conductivity or of similar purity		
· Can	Canadian substance listings:		

Jan	Odnacian Substance nstings.		
. C	· Canadian Domestic Substances List (DSL)		
56-81-5	glycerol		
7647-14-5	sodium chloride		
7558-79-4	disodium hydrogenorthophosphate		
7732-18-5	water, distilled, conductivity or of similar purity		
· C	anadian Ingredient Disclosure list (limit 0.1%)		
None of the	e ingredients is listed.		

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

(Contd. on page 8)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab I - Anti-PrP MAb (10x) (8ml)

(Contd. of page 7)

## · National regulations:

Class	Share in %
NK	30.0

· 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:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

#### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)

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

CDN





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

## 1 Identification

- · Product identifier
  - · Trade name: Ab II Conjugate (10x) (10ml)
    - · Article number: 5169D
    - Application of the substance / the mixture
       In vitro diagnostic medical device or component.
       Laboratory reagent or component.
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad 3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33 e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808 Fax: (514) 334-0872

· Information department: Customer support. · Emergency telephone number: See item 16

#### 2 Hazard identification

· Classification of the substance or mixture



Skin Sensitizer - Category 1 H317 May cause an allergic skin reaction.

Aguatic Acute 3 H402 Harmful to aquatic life.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Label elements

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms GHS07
- · Signal word Warning
- · Hazard-determining components of labeling:

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)

· Hazard statements

May cause an allergic skin reaction.

Harmful to aquatic life.

(Contd. on page 2)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

#### Trade name: Ab II - Conjugate (10x) (10ml)

(Contd. of page 1)

Harmful to aquatic life with long lasting effects.

#### · Precautionary statements

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

Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment.

Wear protective gloves.

If on skin: Wash with plenty of soap and water.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

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

#### Classification system:

## NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

#### · HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

## 3 Composition/Information on ingredients

#### · Chemical characterization: Mixtures

· **Description:** Mixture containing hazardous components.

· Danger	· Dangerous components:			
56-81-5	glycerol	10-30% w/w *		
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)  Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) – Category 2, H310; Acute Toxicity (Inhalation) - Category 2, H330  Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318  Aquatic Acute 1, H400; Aquatic Chronic 1, H410  Skin Sensitizer - Category 1A, H317	≤0.1% w/w		

<sup>\*</sup> Actual concentration ranges are withheld as a trade secret.

## 4 First-aid measures

#### · Description of first aid measures

#### · 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: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact: Rinse opened eye for several minutes under running water.

(Contd. on page 3)



Page 3/8

# Safety Data Sheet according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab II - Conjugate (10x) (10ml)

(Contd. of page 2)

- · After swallowing: Immediately call a doctor.
- · 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.

- 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.

Wear disposable gloves.

Environmental precautions:

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

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). 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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

- 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: No special requirements.
    - · Information about storage in one common storage facility: Not required.
    - · Further information about storage conditions: None.

(Contd. on page 4)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab II - Conjugate (10x) (10ml)

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

(Contd. of page 3)

## 8 Exposure controls/ 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

EL () 10\* 3\*\* mg/m³

\*mist; \*\*mist, resirable

EV () 10 mg/m<sup>3</sup>

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air. Suitable respiratory protective device recommended.

- Protection of hands: Protective gloves
- · Eye protection: Safety glasses

## 9 Physical and chemical properties

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

· Form: Fluid

· Color: According to product specification

Odor: CharacteristicOdor threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/Melting range:
 Boiling point/Boiling range:
 Undetermined.
 Undetermined.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 400 °C

· **Decomposition temperature:** Not determined.

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab II - Conjugate (10x) (10ml)

	(Contd. of page	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
· Explosion limits:		
· Lower:	0.9 Vol %	
· Upper:	Not determined.	
· Vapor pressure at 20 °C:	23 hPa	
· Density:	Not determined.	
· Relative density	Not determined.	
· Vapor density	Not determined.	
Evaporation rate	Not determined.	
· Solubility in / Miscibility with		
· Water:	Insoluble.	
· Partition coefficient (n-octano	I/water): Not determined.	
· Viscosity:		
· Dynamic:	Not determined.	
· Kinematic:	Not determined.	
· Solvent content:		
· Organic solvents:	30.0 %	
· Water:	39.3 %	
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:
    - · Primary irritant effect:
      - on the skin: No irritant effect.on the eye: No irritating effect.
    - · Sensitization: Sensitization possible through skin contact.

(Contd. on page 6)



Page 6/8 Safety Data Sheet

according to HPR, Schedule 1

Reviewed on 07/08/2015 Printing date 11/01/2020

Trade name: Ab II - Conjugate (10x) (10ml)

(Contd. of page 5)

## · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

· Carcinogenic categories

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
  - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior 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 (Self-assessment): slightly hazardous for water

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

Avoid transfer into the environment.

- · 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 be specially treated adhering to official regulations.
- **Uncleaned packagings:** 
  - · Recommendation: Disposal must be made according to official regulations.

#### **14 Transport information**

- · UN-Number
  - DOT/TDG, ADR, ADN, IMDG, IATA Void

(Contd. on page 7)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab II - Conjugate (10x) (10ml)

		(Contd. of page
UN proper shipping name DOT/TDG, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA · Class	Void	
Packing group DOT/TDG, ADR, IMDG, IATA	Void	
Environmental hazards: Marine pollutant:	No	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.	
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· S	· Section 355 (extremely hazardous substances):		
None of the	e ingredient is listed.		
· S	ection 313 (Specific toxic chemical listings):		
None of the	e ingredients is listed.		
· TSC	A (Toxic Substances Control Act):		
56-81-5	glycerol		
7647-14-5	sodium chloride		
7558-79-4	disodium hydrogenorthophosphate		
7732-18-5	water, distilled, conductivity or of similar purity		
· Can	Canadian substance listings:		
. 0	anadian Domostic Substances List (DSL)		

Can	Canadian substance listings.		
· C	Canadian Domestic Substances List (DSL)		
56-81-5	glycerol		
7647-14-5	sodium chloride		
7558-79-4	disodium hydrogenorthophosphate		
7732-18-5	water, distilled, conductivity or of similar purity		
· C	Canadian Ingredient Disclosure list (limit 0.1%)		
None of the	None of the ingredients is listed.		
_			

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

(Contd. on page 8)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 07/08/2015

Trade name: Ab II - Conjugate (10x) (10ml)

(Contd. of page 7)

#### · National regulations:

Class	Share in %
NK	30.0

· 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:**

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

#### Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation 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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

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





according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 09/29/2015

## 1 Identification

- · Product identifier
  - · Trade name: PK Proteinase K (0.5 mL)
    - · Article number:

5144E 5169M

- · Application of the substance / the mixture Laboratory reagent or component.
- Details of the supplier of the safety data sheet
  - Manufacturer/Supplier:

Bio-Rad 3 boulevard Raymond-Poincaré 92430 Marnes-la-Coquette Phone: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33

e-mail: fds-msds.fr@bio-rad.com

Bio-Rad laboratories (Canada) Ltd. 2403 Guénette Montreal, Montréal (Québec) H4R 2E9 Phone: (800) 361-1808

Fax: (514) 334-0872

Information department: Customer support.
 Emergency telephone number: See item 16

#### 2 Hazard identification

· Classification of the substance or mixture



Health hazard

Respiratory Sensitizer - Category 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- · Label elements
  - · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms GHS08
- · Signal word Danger
- Hazard-determining components of labeling:

Proteinase, Tritirachium album serine

· Hazard statements

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

· Precautionary statements

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

[In case of inadequate ventilation] wear respiratory protection.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

(Contd. on page 2)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 09/29/2015

Trade name: PK - Proteinase K (0.5 mL)

(Contd. of page 1)

If experiencing respiratory symptoms: Call a poison center/doctor.

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

Classification system:

NFPA ratings (scale 0 - 4)

Health = 0

Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = \*0

Fire = 0

Reactivity = 0

#### 3 Composition/Information on ingredients

- · Chemical characterization: Mixtures
  - · **Description**: Mixture containing components at a non hazardous concentration.

Dangerous components:		
56-81-5	glycerol	1-5% w/w *
	Proteinase, Tritirachium album serine  Respiratory Sensitizer - Category 1, H334 Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	1-5% w/w *

<sup>\*</sup> Actual concentration ranges are withheld as a trade secret.

## 4 First-aid measures

- Description of first aid measures
  - · After inhalation: Supply fresh air; consult doctor in case of complaints.
  - · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - · After eye contact: Rinse opened eye for several minutes under running water.
  - · After swallowing: Immediately call a doctor.
  - · 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. 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

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 09/29/2015

Trade name: PK - Proteinase K (0.5 mL)

(Contd. of page 2)

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 product to reach sewage system or any water course.
- · Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material.

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

Keep receptacles tightly sealed.

Follow good laboratory practices.

- 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: No special requirements.
    - 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/ 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

EL Long-term value: 10\* 3\*\* mg/m³

\*mist; \*\*mist, resirable

EV Long-term value: 10 mg/m³

- · Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment:
  - · General protective and hygienic measures: Wash hands before breaks and at the end of work.
  - · Breathing equipment: Suitable respiratory protective device recommended.
  - · Protection of hands: Protective gloves

(Contd. on page 4)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 09/29/2015

Trade name: PK - Proteinase K (0.5 mL)

· Eye protection: Safety glasses

(Contd. of page 3)

## 9 Physical and chemical properties

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

· Appearance:

· Form: Fluid · Color: Red

· Odor: Weak, characteristic

· pH-value: Not determined.

· Change in condition

· Boiling point/Boiling range: Undetermined.

· Flash point: Not applicable.

• **Danger of explosion:** Product does not present an explosion hazard.

· **Density:** Not determined.

· Solubility in / Miscibility with

• Water: Fully miscible.

• 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
  - · Additional toxicological information:

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

(Contd. on page 5)





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 09/29/2015

Trade name: PK - Proteinase K (0.5 mL)

(Contd. of page 4)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

## 12 Ecological information

- · Toxicity
  - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- Additional ecological information:
  - General notes: Avoid transfer into the environment.
- · 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 be specially treated adhering to official regulations.
- Uncleaned packagings:
  - · Recommendation: Disposal must be made according to official regulations.

· UN-Number		
· DOT/TDG, ADR, ADN, IMDG, IATA	Void	
UN proper shipping name		
· DOT/TDG, ADR, ADN, IMDG, IATA	Void	
Transport hazard class(es)		
· DOT, ADR, ADN, IMDG, IATA		
Class	Void	
Packing group		
DOT/TDG, ADR, IMDG, IATA	Void	





according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 09/29/2015

Trade name: PK - Proteinase K (0.5 mL)

	(Contd. of page
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
Transport in bulk according to Annex MARPOL73/78 and the IBC Code	t <b>II of</b> Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	Void

# 15 Regulatory information

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

	<sup>.</sup> Sara
	· Section 355 (extremely hazardous substances):
	None of the ingredient is listed.
Section 313 (Specific toxic chemical listings):	
Г	None of the ingredients is listed

Notic of the ingredients is listed.			
· TSCA (Toxic Substances Control Act):			
56-81-5	glycerol		
34487-61-1	sodium hydrogen 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bisphenolate S,S-dioxide		

7732-18-5 water, distilled, conductivity or of similar purity

· Canadian substance listings:

· Canadian Domestic Substances List (DSL)	
56-81-5	glycerol
34487-61-1	sodium hydrogen 4,4'-(3H-2,1-benzoxathiol-3-ylidene)bisphenolate S,S-dioxide
7732-18-5	water, distilled, conductivity or of similar purity

## · Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

None of the ingredients is listed.

#### · National regulations:

Class	Share in %
I	1.7
NK	2.4

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

CDN



Page 7/7

# Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020 Reviewed on 09/29/2015

Trade name: PK - Proteinase K (0.5 mL)

(Contd. of page 6)

## 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:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

**Customer Support** 

Phone: +33 (0)1 47 95 62 77

**Customer Support** 

Phone: +33 (0)1 47 95 61 85

## · Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

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)

NFPA: National Fire Protection Association (USA) HMIS: Hazardous Materials Identification System (USA)

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

\_\_\_\_CDN