

# KIT COMPONENTS

Product name: **DISCRIMINATORY KIT**

Product code: **3551177**

Article number	Description	Quantity	Symbols
5177A	A1 - Denaturing solution, 8 ml	1	
5177B	A2 - Deanturing solution additive, 0.4 ml	1	
5177C	B - Clarifying solution, 6 ml	1	GHS02 GHS07 GHS05
5177D	PK - Proteinase K, 0.2 ml	1	GHS08 GHS07
5177E	BI - Blocking solution (10x), 10 ml	1	GHS07
5177F	Ab Ctrl - Control Ab (10x), 8 ml	1	GHS07
5177G	Ab Test - Test Ab (10x), 4 ml	1	GHS07
5177H	Ab II - Conjugate (10x), 14 ml	1	GHS07

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

### 1 Identification

- **Product identifier**

- **Trade name:** A1 - Denaturing solution, 8 ml

- **Article number:** 5177A

- **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**

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

- **Label elements**

- **GHS label elements** Void

- **Hazard pictograms** Void

- **Signal word** Void

- **Hazard statements** Void

- **Classification system:**

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

Health = 0

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**

Health = 0

Fire = 0

Reactivity = 0

CDN

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: A1 - Denaturing solution, 8 ml




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### 3 Composition/Information on ingredients

· **Chemical characterization: Mixtures**

· **Description:** Mixture containing components at a non hazardous concentration.

· **Dangerous components:**

151-21-3	sodium dodecyl sulphate	5-10% w/w *
	<div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">  </div> <div>Acute Toxicity (Dermal) – Category 3, H311</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">  </div> <div>Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315;</div> </div> <div style="display: flex; align-items: center;"> <div style="margin-right: 5px;">  </div> <div>Eye Irritation - Category 2A, H319</div> </div>	

\* Actual concentration ranges are withheld as a trade secret.

### 4 First-aid measures

· **Description of first aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Consult a doctor, if necessary.
- **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.  
CO<sub>2</sub>, 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 disposable gloves.
- **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** No dangerous substances are released.

CDN

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: A1 - Denaturing solution, 8 ml

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### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Avoid all contact with reagents, even those considered to be non-hazardous.  
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.
- **Personal protective equipment:**
  - **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
  - **Breathing equipment:** 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:** Colorless
    - **Odor:** Weak, characteristic
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** Not applicable.
  - **Danger of explosion:** Product does not present an explosion hazard.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A1 - Denaturing solution, 8 ml**

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- |   |  |
|---|--|
| <b>· Density:</b>                         | Not determined.                            |
| <b>· Solubility in / Miscibility with</b> |  |
| <b>· Water:</b>                           | Fully miscible.                            |
| <b>· Other information</b>                | 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 is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **Carcinogenic categories**

<b>· IARC (International Agency for Research on Cancer)</b>
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None of the ingredients is listed.
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<b>· NTP (National Toxicology Program)</b>
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None of the ingredients is listed.
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### 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.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A1 - Denaturing solution, 8 ml**

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- **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.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

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

CDN

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A1 - Denaturing solution, 8 ml**

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### 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):**

None of the ingredients is listed.

- **TSCA (Toxic Substances Control Act):**

137-16-6	Sarkosyl
151-21-3	sodium dodecyl sulphate
57-13-6	urea
7647-14-5	sodium chloride
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%)**

151-21-3	sodium dodecyl sulphate
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- **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:**

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)

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**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A1 - Denaturing solution, 8 ml**

NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative

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CDN



## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

### 1 Identification

- **Product identifier**

- **Trade name:** A2 - Deanturing solution additive, 0.4 ml
  - **Article number:** 5177B
  - **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**

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

- **Label elements**

- **GHS label elements** Void
  - **Hazard pictograms** Void
  - **Signal word** Void
  - **Hazard statements** Void

- **Classification system:**

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

Health = 0

Fire = 0

Reactivity = 0

- **HMIS-ratings (scale 0 - 4)**

Health = 0

Fire = 0

Reactivity = 0

CDN

(Contd. on page 2)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: A2 - Deanturing solution additive, 0.4 ml

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### 3 Composition/Information on ingredients

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

### 4 First-aid measures

- **Description of first aid measures**
  - **General information:** No special measures required.
  - **After inhalation:** Supply fresh air; consult doctor in case of complaints.
  - **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
  - **After eye contact:** Rinse opened eye for several minutes under running water.
  - **After swallowing:** Consult a doctor, if necessary.
- **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.  
CO<sub>2</sub>, 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 disposable gloves.
- **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** No dangerous substances are released.

### 7 Handling and storage

- **Handling:**
  - **Precautions for safe handling**  
Avoid all contact with reagents, even those considered to be non-hazardous.

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CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A2 - Deanturing solution additive, 0.4 ml**

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- 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.
- **Personal protective equipment:**
  - **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
  - **Breathing equipment:** 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:** Colorless
- **Odor:** Odorless

##### · Change in condition

- **Melting point/Melting range:** Undetermined.
- **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.

(Contd. on page 4)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A2 - Deanturing solution additive, 0.4 ml**

(Contd. of page 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**
  - **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **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.

(Contd. on page 5)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A2 - Deanturing solution additive, 0.4 ml**

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· **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.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |  |  |
|--|--|
| · <b>UN-Number</b>   | Void   |
| · <b>DOT/TDG, ADR, ADN, IMDG, IATA</b>   | Void   |
| · <b>UN proper shipping name</b>   | Void   |
| · <b>DOT/TDG, ADN, IMDG, IATA</b>  | Void   |
| · <b>ADR</b>   | Void   |
| · <b>Transport hazard class(es)</b>  |  |
| · <b>DOT, ADR, ADN, IMDG, IATA</b>   |  |
| · <b>Class</b>   | Void   |
| · <b>Packing group</b>   |  |
| · <b>DOT/TDG, ADR, IMDG, IATA</b>  | Void   |
| · <b>Environmental hazards:</b>  |  |
| · <b>Marine pollutant:</b>   | No   |
| · <b>Special precautions for user</b>  | Not applicable.                                      |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b> | Not applicable.                                      |
| · <b>Transport/Additional information:</b>                                       | Not dangerous according to the above specifications. |
| · <b>UN "Model Regulation":</b>  | 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 ingredient is listed.

#### · **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

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CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: A2 - Deanturing solution additive, 0.4 ml**

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· **TSCA (Toxic Substances Control Act):**

77-92-9	citric acid
7732-18-5	water, distilled, conductivity or of similar purity

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

77-92-9	citric acid
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

· **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)  
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, 6 ml

· **Article number:** 5177C

· **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**



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 - Category 3

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)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: B - Clarifying solution, 6 ml**

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· **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: CO<sub>2</sub>, 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

CDN

(Contd. on page 3)



## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: **B - Clarifying solution, 6 ml**

(Contd. of page 2)

### 3 Composition/Information on ingredients

- **Chemical characterization: Mixtures**

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

- **Dangerous components:**

71-36-3	butan-1-ol	80-100% w/w *
	<ul style="list-style-type: none"> <li>⚠ Flammable Liquids - Category 3, H226</li> <li>⚠ Serious Eye Damage - Category 1, H318</li> <li>⚠ Acute Toxicity (Oral) - Category 4, H302; Skin Irritation - Category 2, H315; Specific Target Organ Toxicity - Single Exposure - Category 3, H335-H336</li> </ul>	

\* Actual concentration ranges are withheld as a trade secret.

### 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:**

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. 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.

CO<sub>2</sub>, 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.

CDN

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: B - Clarifying solution, 6 ml**

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### 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.
- **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
EV	20 ppm

- **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.

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## Safety Data Sheet

according to HPR, Schedule 1

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Reviewed on 07/08/2015

**Trade name: B - Clarifying solution, 6 ml**

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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.

· **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:** Solution

· **Color:** Yellow

· **Odor:** Like alcohol

· **pH-value at 20 °C:** 6.1±0.1

##### · Change in condition

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** 116 °C

· **Flash point:** 34 °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 at 20 °C:** 0.81 g/cm<sup>3</sup>

##### · 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.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: B - Clarifying solution, 6 ml**

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- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

#### · Information on toxicological effects

##### · Acute toxicity:

##### · LD/LC50 values that are relevant for classification:

##### 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 eye:** Strong irritant with the danger of severe eye injury.

##### · Sensitization:

##### · 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

##### · Behavior in environmental systems:

##### · Bioaccumulative potential

No further relevant information available.

##### · Mobility in soil

##### · 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.

#### · Results of PBT and vPvB assessment

##### · PBT:

Not applicable.

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## Safety Data Sheet

according to HPR, Schedule 1

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Reviewed on 07/08/2015

**Trade name: B - Clarifying solution, 6 ml**




(Contd. of page 6)

- **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

- |  |  |
|--|--|
| <ul style="list-style-type: none"> <li>· <b>UN-Number</b></li> <li>· <b>DOT/TDG</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>               | <p>UN1120<br/>1120</p>   |
| <ul style="list-style-type: none"> <li>· <b>UN proper shipping name</b></li> <li>· <b>DOT/TDG, IMDG, IATA</b></li> <li>· <b>ADR</b></li> </ul> | <p>BUTANOLS, solution<br/>1120 BUTANOLS, solution</p>  |
| <ul style="list-style-type: none"> <li>· <b>Transport hazard class(es)</b></li> <li>· <b>DOT/TDG (Transport dangerous goods):</b></li> </ul>   | <div style="display: flex; align-items: center; margin-bottom: 10px;">  <div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> </div> <div style="margin-left: 20px;"> <p>3 Flammable liquids<br/>3</p> </div> </div> <hr style="border-top: 1px dashed #ccc;"/> <div style="display: flex; align-items: center; margin-bottom: 10px;">  <div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> </div> <div style="margin-left: 20px;"> <p>3 (F1) Flammable liquids<br/>3</p> </div> </div> <hr style="border-top: 1px dashed #ccc;"/> <div style="display: flex; align-items: center; margin-bottom: 10px;">  <div> <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul> </div> <div style="margin-left: 20px;"> <p>3 Flammable liquids<br/>3</p> </div> </div> |
| <ul style="list-style-type: none"> <li>· <b>IMDG, IATA</b></li> </ul>  | <p>3 Flammable liquids<br/>3</p>   |
| <ul style="list-style-type: none"> <li>· <b>Packing group</b></li> <li>· <b>DOT/TDG, ADR, IMDG, IATA</b></li> </ul>                            | <p>III</p>   |

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**Trade name: B - Clarifying solution, 6 ml**

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· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Warning: Flammable liquids
· <b>Hazard identification number (Kemler code):</b>	30
· <b>EMS Number:</b>	F-E,S-D
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>UN "Model Regulation":</b>	UN1120, BUTANOLS, solution, 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

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%)**

All ingredients are listed.

#### · **National regulations:**

Class	Share in %
NK	99.9

- **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.

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**Safety Data Sheet**  
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**Trade name: B - Clarifying solution, 6 ml**

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**· 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

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

### 1 Identification

· **Product identifier**

- **Trade name:** PK - Proteinase K, 0.2 ml
- **Article number:** 5177D
- **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.



Skin Irritation - Category 2

H315 Causes skin irritation.

Eye Irritation - Category 2A

H319 Causes serious eye irritation.

Specific Target Organ Toxicity - Single Exposure - Category 3

H335 May cause respiratory irritation.

· **Label elements**

· **GHS label elements**

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

· **Hazard pictograms** GHS07, GHS08

· **Signal word** Danger

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

Proteinase, Tritirachium album serine

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CDN



## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: PK - Proteinase K, 0.2 ml**

(Contd. of page 1)

**Hazard statements**

Causes skin irritation.

Causes serious eye irritation.

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

May cause respiratory irritation.

**Precautionary statements**

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

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

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

[In case of inadequate ventilation] wear respiratory protection.

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

Specific treatment (see on this label).

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.

Call a poison center/doctor if you feel unwell.

Take off contaminated clothing and wash it before reuse.

If skin irritation occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

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

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

Store locked up.

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

**Classification system:**
**NFPA ratings (scale 0 - 4)**

Health = 2

Fire = 0

Reactivity = 0

**HMIS-ratings (scale 0 - 4)**

Health = \*2



Fire = 0

Reactivity = 0

### 3 Composition/Information on ingredients

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

**Dangerous components:**

39450-01-6	Proteinase, Tritirachium album serine	80-100% w/w *
	 Respiratory Sensitizer - Category 1, H334  Skin Irritation - Category 2, H315; Eye Irritation - Category 2A, H319; Specific Target Organ Toxicity - Single Exposure - Category 3, H335	
56-81-5	glycerol	1-5% w/w *

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## Safety Data Sheet

according to HPR, Schedule 1

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Reviewed on 07/08/2015

**Trade name: PK - Proteinase K, 0.2 ml**

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\* Actual concentration ranges are withheld as a trade secret.

### 4 First-aid measures

· **Description of first aid measures**

- **General information:** No special measures required.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** Consult a doctor, if necessary.
- **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.  
CO<sub>2</sub>, 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 disposable gloves.
- **Environmental precautions:**  
Dilute with plenty of water.  
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.  
Dispose contaminated material as waste according to item 13.
- **Reference to other sections** No dangerous substances are released.

### 7 Handling and storage

· **Handling:**

- **Precautions for safe handling**  
Avoid all contact with reagents, even those considered to be non-hazardous.  
Follow good laboratory practices.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: PK - Proteinase K, 0.2 ml**

(Contd. of page 3)

- **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	10* 3** mg/m <sup>3</sup> *mist; **mist, respirable
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:**  
The usual precautionary measures for handling chemicals should be followed.
  - **Breathing equipment:** 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:

· <b>Form:</b>	Viscous
· <b>Color:</b>	Red
· <b>Odor:</b>	Weak, characteristic

#### · Change in condition

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

· <b>Flash point:</b>	Not applicable.
· <b>Auto igniting:</b>	Product is not selfigniting.
· <b>Danger of explosion:</b>	Product does not present an explosion hazard.
· <b>Density:</b>	Not determined.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: PK - Proteinase K, 0.2 ml**

(Contd. of page 4)

- **Solubility in / Miscibility with**

- **Water:** Fully miscible.

- **Solvent content:**

- **Organic solvents:** 1.9 %

- **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**

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

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

- **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.

(Contd. on page 6)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: PK - Proteinase K, 0.2 ml**

(Contd. of page 5)

- **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.
- **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.
  - **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

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

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: PK - Proteinase K, 0.2 ml**

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### 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):**

None 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 %
NK	1.9

- **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:**

ICAO: International Civil Aviation Organisation

IMDG: International Maritime Code for Dangerous Goods

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**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 11/01/2020

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**Trade name: PK - Proteinase K, 0.2 ml**

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

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CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

### 1 Identification

· **Product identifier**

· **Trade name:** BI - Blocking solution (10x), 10 ml

· **Article number:** 5177E

· **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**



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

Aquatic 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.

Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

CDN



## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: BI - Blocking solution (10x), 10 ml**

(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:

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)	≤0.1% w/w
	<ul style="list-style-type: none"> <li>⚠ Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) – Category 2, H310; Acute Toxicity (Inhalation) - Category 2, H330</li> <li>⚠ Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318</li> <li>⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410</li> <li>⚠ Skin Sensitizer - Category 1A, H317</li> </ul>	

\* 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.
- **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.

(Contd. on page 3)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: BI - Blocking solution (10x), 10 ml**

(Contd. of page 2)

**· 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.  
CO<sub>2</sub>, 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.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **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** 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.

CDN

(Contd. on page 4)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: BI - Blocking solution (10x), 10 ml

(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/m<sup>3</sup>  
\*mist; \*\*mist, respirable

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:** 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:**

Yellowish

· **Odor:**

Product specific

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** Undetermined.

· **Flash point:**

Not applicable.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Density:**

Not determined.

· **Solubility in / Miscibility with**

· **Water:**

Fully miscible.

· **Solvent content:**

· **Organic solvents:**

30.0 %

· **Other information**

No further relevant information available.

CDN

(Contd. on page 5)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: BI - Blocking solution (10x), 10 ml**

(Contd. of page 4)

### 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:  
Irritant
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>
---

None of the ingredients is listed.
------------------------------------

· <b>NTP (National Toxicology Program)</b>
--

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

CDN

(Contd. on page 6)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: BI - Blocking solution (10x), 10 ml**

(Contd. of page 5)

### 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

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

### 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredient is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
· <b>TSCA (Toxic Substances Control Act):</b>
56-81-5 glycerol
7647-14-5 sodium chloride
7778-77-0 potassium dihydrogenorthophosphate

(Contd. on page 7)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: BI - Blocking solution (10x), 10 ml**

(Contd. of page 6)

1310-73-2	sodium hydroxide
7732-18-5	water, distilled, conductivity or of similar purity

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

56-81-5	glycerol
7647-14-5	sodium chloride
7778-77-0	potassium dihydrogenorthophosphate
1310-73-2	sodium hydroxide
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 %
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:**

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)  
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:** Ab Ctrl - Control Ab (10x), 8 ml
- **Article number:** 5177F
- **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**

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

Aquatic 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.  
Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab Ctrl - Control Ab (10x), 8 ml**

(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:

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)	≤0.1% w/w
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\* 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.
- **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.

(Contd. on page 3)

CDN



**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab Ctrl - Control Ab (10x), 8 ml**

(Contd. of page 2)

· **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.  
CO<sub>2</sub>, 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.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **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** 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.

CDN

(Contd. on page 4)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: Ab Ctrl - Control Ab (10x), 8 ml

(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/m<sup>3</sup>  
\*mist; \*\*mist, respirable

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:** 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:**

Yellowish

· **Odor:**

Product specific

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** Undetermined.

· **Flash point:**

Not applicable.

· **Auto igniting:**

Product is not selfigniting.

· **Danger of explosion:**

Product does not present an explosion hazard.

· **Density:**

Not determined.

· **Solubility in / Miscibility with**

· **Water:**

Fully miscible.

· **Solvent content:**

· **Organic solvents:**

30.0 %

· **Other information**

No further relevant information available.

CDN

(Contd. on page 5)

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: Ab Ctrl - Control Ab (10x), 8 ml

(Contd. of page 4)

### 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:  
Irritant
- **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>
---

None of the ingredients is listed.
------------------------------------

· <b>NTP (National Toxicology Program)</b>
--

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

CDN

(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 Ctrl - Control Ab (10x), 8 ml**

(Contd. of page 5)

### 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

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

### 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredient is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
· <b>TSCA (Toxic Substances Control Act):</b>
56-81-5 glycerol
7647-14-5 sodium chloride
7778-77-0 potassium dihydrogenorthophosphate

(Contd. on page 7)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab Ctrl - Control Ab (10x), 8 ml**

(Contd. of page 6)

1310-73-2	sodium hydroxide
7732-18-5	water, distilled, conductivity or of similar purity

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

56-81-5	glycerol
7647-14-5	sodium chloride
7778-77-0	potassium dihydrogenorthophosphate
1310-73-2	sodium hydroxide
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 %
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:**

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)  
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:** Ab Test - Test Ab (10x), 4 ml

· **Article number:** 5177G

· **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**



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

Aquatic 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.

Harmful to aquatic life with long lasting effects.

(Contd. on page 2)

CDN

## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab Test - Test Ab (10x), 4 ml**

(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:**

56-81-5	glycerol	10-30% w/w *
55965-84-9	<p>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)</p> <p> Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) – Category 2, H310; Acute Toxicity (Inhalation) - Category 2, H330</p> <p> Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318</p> <p> Aquatic Acute 1, H400; Aquatic Chronic 1, H410</p> <p> Skin Sensitizer - Category 1A, H317</p>	≤0.1% w/w

\* 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.

· **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.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab Test - Test Ab (10x), 4 ml**

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**· 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.  
CO<sub>2</sub>, 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.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **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** 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.

CDN

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## Safety Data Sheet

according to HPR, Schedule 1

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**Trade name: Ab Test - Test Ab (10x), 4 ml**

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### 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/m <sup>3</sup> *mist; **mist, respirable
----	--

· **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

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** Fluid

· **Color:** Yellowish

· **Odor:** Product specific

· **Change in condition**

· **Melting point/Melting range:** Undetermined.

· **Boiling point/Boiling range:** Undetermined.

· **Flash point:** Not applicable.

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

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

· **Density:** Not determined.

· **Solubility in / Miscibility with**

· **Water:** Fully miscible.

· **Solvent content:**

· **Organic solvents:** 30.0 %

· **Other information** No further relevant information available.

CDN

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab Test - Test Ab (10x), 4 ml**

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### 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:  
Irritant
  - **Carcinogenic categories**

· <b>IARC (International Agency for Research on Cancer)</b>
---

None of the ingredients is listed.
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· <b>NTP (National Toxicology Program)</b>
--

None of the ingredients is listed.
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### 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.
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

CDN

(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 Test - Test Ab (10x), 4 ml**

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### 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

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

### 15 Regulatory information

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

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredient is listed.
· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients is listed.
· <b>TSCA (Toxic Substances Control Act):</b>
56-81-5 glycerol
7647-14-5 sodium chloride
7778-77-0 potassium dihydrogenorthophosphate
1310-73-2 sodium hydroxide

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## Safety Data Sheet

according to HPR, Schedule 1

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**Trade name: Ab Test - Test Ab (10x), 4 ml**

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7732-18-5	water, distilled, conductivity or of similar purity
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· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

56-81-5	glycerol
7647-14-5	sodium chloride
7778-77-0	potassium dihydrogenorthophosphate
1310-73-2	sodium hydroxide
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 %
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:**

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)  
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:** Ab II - Conjugate (10x), 14 ml

· **Article number:** 5177H

· **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**



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

Aquatic 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.

Harmful to aquatic life with long lasting effects.

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CDN

## Safety Data Sheet

according to HPR, Schedule 1

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**Trade name: Ab II - Conjugate (10x), 14 ml**

(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] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	≤0.1% w/w
	<div> <div> </div> <div> </div> </div> Acute Toxicity (Oral) - Category 3, H301; Acute Toxicity (Dermal) - Category 2, H310; Acute Toxicity (Inhalation) - Category 2, H330	
	<div> <div> </div> <div> </div> </div> Skin Corrosion - Category 1C, H314; Serious Eye Damage - Category 1, H318	
	<div> <div> </div> <div> </div> </div> Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	<div> <div> </div> <div> </div> </div> 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.
- **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.

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**Safety Data Sheet**  
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**Trade name: Ab II - Conjugate (10x), 14 ml**

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- **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.  
CO<sub>2</sub>, 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.
- **Methods and material for containment and cleaning up:**  
Absorb liquid components with liquid-binding material.  
Dispose contaminated material as waste according to item 13.
- **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** 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.

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CDN

## Safety Data Sheet

according to HPR, Schedule 1

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Reviewed on 07/08/2015

**Trade name: Ab II - Conjugate (10x), 14 ml**

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- **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

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
  - **General Information**
    - **Appearance:**
      - **Form:** Fluid
      - **Color:** Yellowish
    - **Odor:** Product specific
  - **Change in condition**
    - **Melting point/Melting range:** Undetermined.
    - **Boiling point/Boiling range:** Undetermined.
  - **Flash point:** Not applicable.
  - **Auto igniting:** Product is not selfigniting.
  - **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.

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## Safety Data Sheet

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Reviewed on 07/08/2015

**Trade name: Ab II - Conjugate (10x), 14 ml**

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- **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:

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.

- **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.

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## Safety Data Sheet

according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

Trade name: Ab II - Conjugate (10x), 14 ml

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### 14 Transport information

· UN-Number	
· DOT/TDG, ADR, ADN, IMDG, IATA	Void
· UN proper shipping name	
· DOT/TDG, ADN, IMDG, IATA	Void
· ADR	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 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):

None of the ingredient is listed.

#### · Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### · TSCA (Toxic Substances Control Act):

26172-54-3	2-Methyl-2h-isothiazol--onhydrochlorid
	Bronidox
7732-18-5	water, distilled, conductivity or of similar purity

#### · Canadian substance listings:

##### · Canadian Domestic Substances List (DSL)

26172-54-3	2-Methyl-2h-isothiazol--onhydrochlorid
	Bronidox
7732-18-5	water, distilled, conductivity or of similar purity

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

None of the ingredients is listed.

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CDN

**Safety Data Sheet**  
according to HPR, Schedule 1

Printing date 11/01/2020

Reviewed on 07/08/2015

**Trade name: Ab II - Conjugate (10x), 14 ml**

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**· 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

**· 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

CDN