

KIT COMPONENTS

Product name: **TeSeE Purification Kit** Product codes: **3551144**, 3551144J

Article number	Description	Quantity	Symbols
5144A	Grinding Tubes, 96 Tubes	2	GHS07
5144B	TeSeE™ PURIFICATION KIT - Tampon A (55 mL)	1	GHS05
5144C	B - Clarifying Solution (55 mL)	1	GHS02 GHS07 GHS05
5144D	C - Resolving Buffer (7 mL)	1	
5144E	PK - Proteinase K (0.5 mL)	1	GHS08





according to WHS Regulations

Printing date 01.11.2020 Version number 3 Revision: 17.07.2015

Hazardous according to criteria of Safe Work Australia.

1 Identification

· Product identifier

· Trade name: Grinding Tubes

· Article number: 5144A

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

No further relevant information available.

· Application of the substance / the mixture Laboratory reagent or component.

· Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré F-92430 Marnes-la-Coquette

Tel.: +33 (0)1 47 95 60 00

Fax: +33 (0)1 47 41 91 33

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

- · Further information obtainable from: Customer Support.
- · Emergency telephone number: See item 16

2 Hazard(s) Identification

· Classification of the substance or mixture



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

- · Label elements
 - · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

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

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.

· Precautionary statements

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

Wear protective gloves.

IF ON SKIN: Wash with plenty of water and soap.

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.

(Contd. on page 2)

i. Oii page 2



Page 2/7

according to WHS Regulations

Printing date 01.11.2020 Version number 3 Revision: 17.07.2015

Trade name: Grinding Tubes

(Contd. of page 1)

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

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · **Description:** Preparation 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)

Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330

Skin Corr. 1, H314; Eye Dam. 1, H318

Skin Sens. 1A, H317

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

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: Call for a doctor immediately.
 - · 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 extinguishing methods suitable to surrounding conditions.

CO2, 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.

(Contd. on page 3)



Page 3/7

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 3 Revision: 17.07.2015

Trade name: Grinding Tubes

(Contd. of page 2)

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 with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
 - · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

- · Information about fire and explosion protection: 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 and personal protection

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

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

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

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

AUS

(Contd. on page 4)



Page 4/7

Safety Data Sheet

according to WHS Regulations

Version number 3 Revision: 17.07.2015 Printing date 01.11.2020

Trade name: Grinding Tubes

(Contd. of page 3)

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

· General Information

Appearance:

Form: Suspension · Colour: Colourless · Odour: Weak, characteristic

· Change in condition

Melting point/freezing point: Undetermined.

· Initial boiling point and boiling range: Undetermined.

· Flash point: Not applicable.

· Explosive properties: Product does not present an explosion hazard.

· Density: Not determined.

· Solubility in / Miscibility with

· water: Dispersible.

Other information No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
 - **Chemical stability**
 - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · **Incompatible materials:** No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- Information on toxicological effects
 - Acute toxicity
 - Respiratory or skin sensitisation Sensitisation possible through skin contact.
 - · Additional toxicological information:

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

(Contd. on page 5)





according to WHS Regulations

Printing date 01.11.2020 Version number 3 Revision: 17.07.2015

Trade name: Grinding Tubes

(Contd. of page 4)

12 Ecological Information

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

Avoid transfer into the environment.

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

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

13 Disposal considerations

- · Waste treatment methods
 - · **Recommendation** Must be specially treated adhering to official regulations.
- · Uncleaned packaging:
 - **Recommendation:** Disposal must be made according to official regulations.

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

(Contd. on page 6)



Page 6/7

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 3 Revision: 17.07.2015

Trade name: Grinding Tubes

(Contd. of page 5)

UN "Model Regulation":

Void

15 Regulatory information

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

· Australian Inventory of Industrial	Chemicals
--------------------------------------	-----------

50-99-7 glucose

26628-22-8 Sodium Azide

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

· Standard for the Uniform Scheduling of Medicines and Poisons

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.

· Relevant phrases

H301 Toxic if swallowed.

H310 Fatal in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H330 Fatal if inhaled.

Department issuing SDS:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

Customer Support

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

AUSTRALIA

Bio-Rad Laboratories Pty. Ldt. Level 5, 446 Vistoria Road Gladesville NSW 2111

Phone: +61-2-9914-2800 Fax: +61-2-9914-2888

· Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

(Contd. on page 7)



Page 7/7

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 3 Revision: 17.07.2015

Trade name: Grinding Tubes

(Contd. of page 6)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations

Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the

International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 3: Acute toxicity - oral – Category 3 Acute Tox. 2: Acute toxicity - dermal – Category 2 Skin Corr. 1: Skin corrosion/irritation – Category 1

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

Skin Sens. 1: Skin sensitisation – Category 1 Skin Sens. 1A: Skin sensitisation – Category 1A

AUS



Page 1/6

according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Hazardous according to criteria of Safe Work Australia.

1 Identification

- · Product identifier
 - · Trade name: Reagent A Denaturing Solution, 55 mL
 - · Article number: 5144B
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

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

Bio-Rad

3, Boulevard Raymond Poincaré

F-92430 Marnes-la-Coquette Tel.: +33 (0)1 47 95 60 00

Fax: +33 (0)1 47 41 91 33

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

- · Further information obtainable from: Customer Support.
- · Emergency telephone number: See item 16

2 Hazard(s) Identification

· Classification of the substance or mixture



corrosion

Eye Dam. 1 H318 Causes serious eye damage.

- · Label elements
 - · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

- · Hazard pictograms GHS05
- · Signal word Danger
- · Hazard-determining components of labelling:

IGEPAL® CA-630

· Hazard statements

Causes serious eye damage.

Precautionary statements

Wear eye protection / face protection.

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

Immediately call a POISON CENTER/doctor.

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

(Contd. on page 2)





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent A - Denaturing Solution, 55 mL

· vPvB: Not applicable.

(Contd. of page 1)

3 Composition and Information on Ingredients

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

IGEPAL® CA-630

Eye Dam. 1, H318 • Acute Tox. 4, H302 2.5-10%

SVHC

IGEPAL® CA-630

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

4 First Aid Measures

- · Description of first aid measures
 - · General information: No special measures required.
 - · After inhalation: Supply fresh air: consult doctor in case of complaints.
 - · After skin contact: Generally the product does not irritate the skin.
 - · After eye contact: Rinse opened eye for several minutes under running water.
 - · After swallowing: Consult a doctor, if necessary.
 - · Information for doctor:
 - \cdot 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 extinguishing methods suitable to surrounding conditions.

CO2, 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.

(Contd. on page 3)



Page 3/6

Safety Data Sheet according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent A - Denaturing Solution, 55 mL

(Contd. of page 2)

· Methods and material for containment and cleaning up:

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

· Reference to other sections No dangerous substances are released.

7 Handling and Storage

- · Handling:
 - · Precautions for safe handling

Keep receptacles tightly sealed.

Follow good laboratory practices.

- Information about fire and explosion protection: 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 and personal protection

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

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

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

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

- Respiratory protection: Suitable respiratory protective device recommended.
- · Protection of hands:

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

• Eye protection: Goggles recommended during refilling

9 Physical and Chemical Properties

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

Form: FluidColour: Colourless

· **Odour:** Weak, characteristic

(Contd. on page 4)





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent A - Denaturing Solution, 55 mL

	(Contd. of page
· pH-value at 20 °C:	8
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling	g range: Undetermined.
· Flash point:	Not applicable.
· Explosive properties:	Product does not present an explosion hazard.
· Density:	Not determined.
· Solubility in / Miscibility with	
· water:	Fully miscible.
· Other information	No further relevant information available.

10 Stability and Reactivity

- · Reactivity No further relevant information available.
 - · Chemical stability
 - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · **Incompatible materials:** No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
 - · Acute toxicity
 - · Respiratory or skin sensitisation No sensitising effects known.
 - Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

12 Ecological Information

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

(Contd. on page 5)



Safety Data Sheet according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent A - Denaturing Solution, 55 mL

(Contd. of page 4)

Page 5/6

- · Additional ecological information:
 - · General notes:

The product contains materials that are harmful to the environment.

The product may not be released into the environment without control.

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

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

- AUS

(Contd. on page 6)



Page 6/6

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent A - Denaturing Solution, 55 mL

(Contd. of page 5)

15 Regulatory information

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

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

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.

· Relevant phrases

H302 Harmful if swallowed. H318 Causes serious eye damage.

· Department issuing SDS:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

Customer Support

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

AUSTRALIA

Bio-Rad Laboratories Pty. Ldt. Level 5, 446 Vistoria Road Gladesville NSW 2111 Phone: +61-2-9914-2800

Fax: +61-2-9914-2888

· Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic SVHC: Substances of Very High Concern vPvB: very Persistent and very Bioaccumulative

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

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





according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Hazardous according to criteria of Safe Work Australia.

1 Identification

- · Product identifier
 - · Trade name: Reagent B Clarifying Solution
 - · Article number: 5144C
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

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

Bio-Rad

3, Boulevard Raymond Poincaré F-92430 Marnes-la-Coquette Tel.: +33 (0)1 47 95 60 00

Fax: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33

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

- · Further information obtainable from: Customer Support.
- · Emergency telephone number: See item 16

2 Hazard(s) Identification

· Classification of the substance or mixture



flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed. Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H335-H336 May cause respiratory irritation. May cause drowsiness or dizziness.

- · Label elements
 - · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

- · Hazard pictograms GHS02, GHS05, GHS07
- Signal word Danger

(Contd. on page 2)





according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

(Contd. of page 1)

· Hazard-determining components of labelling:

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/sparks/open flames/hot surfaces. No smoking.

Use explosion-proof electrical/ventilating/lighting equipment.

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

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

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

· Other hazards

· Results of PBT and vPvB assessment

- · PBT: Not applicable.
- · vPvB: Not applicable.

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · **Description**: Preparation containing hazardous components.
 - · Dangerous components:

71-36-3 butan-1-ol

50-100%

- 🚸 Flam. Liq. 3, H226
- September 1, H318
- Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335-H336

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

4 First Aid Measures

Description of first aid measures

· General information:

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

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

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

After swallowing: Call for a doctor immediately.

(Contd. on page 3)



Page 3/9

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

(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:

CO2, powder or water spray. Fight larger fires with water spray. Use fire extinguishing methods suitable to surrounding conditions.

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

6 Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

- · Environmental precautions: Do not allow product to reach sewage system or any water course.
- 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 Follow good laboratory practices.
 - · Information about fire and explosion protection:

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 container tightly sealed.

(Contd. on page 4)





according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

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

(Contd. of page 3)

8 Exposure controls and personal protection

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

71-36-3 butan-1-ol

NES 152 mg/m³, 50 ppm Sk

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

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

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

	C	Division a military
		Properties
7 I IIV3166	OHGHIGGI	

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

· Form: Fluid
· Colour: Blue
· Odour: Characteristic

· pH-value: Not determined.

· Change in condition

· Initial boiling point and boiling range: 119 °C

· Flash point: 35 °C
· Ignition temperature: 340 °C

• Auto-ignition temperature: Product is not selfigniting.

• **Explosive properties:** Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower: 1.5 Vol %

(Contd. on page 5)





according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

		(Contd. of page 4)
· Upper:	9.4 Vol %	
· Vapour pressure at 20 °C:	6.7 hPa	
· Density at 20 °C:	0.8095 g/cm³	
· Solubility in / Miscibility with		
· water:	Fully miscible.	
· Solvent content:		
· Organic solvents:	100.0 %	
· Other information	No further relevant information available.	

10 Stability and Reactivity

- · Reactivity No further relevant information available.
 - · Chemical stability
 - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

- · Information on toxicological effects
 - · Acute toxicity

· LD/LC50 values 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:
 - · Skin corrosion/irritation Irritant to skin and mucous membranes.
 - · Serious eye damage/irritation Strong irritant with the danger of severe eye injury.
- · Additional toxicological information:

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

Harmful

Irritant

AUS

(Contd. on page 6)



Safety Data Sheet according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

(Contd. of page 5)

Page 6/9

12 Ecological Information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behaviour in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- Additional ecological information:
 - · General notes: Avoid transfer into the environment.
- · Results of PBT and vPvB assessment
 - · **PBT:** Not applicable.
 - · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
 - · **Recommendation** Must be specially treated adhering to official regulations.
- · Uncleaned packaging:
 - · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number

· ADG, IMDG, IATA UN1120

· UN proper shipping name

ADG 1120 BUTANOLS, mixture

· IMDG, IATA BUTANOLS mixture

- · Transport hazard class(es)
 - · ADG



· Class 3 (F1) Flammable liquids.

· Label

· IMDG, IATA



· Class 3 Flammable liquids.

(Contd. on page 7)





according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

	(Contd. of page
· Label	3
Packing group ADG, IMDG, IATA	III
Environmental hazards: Marine pollutant:	No
Special precautions for user · Hazard identification number (Ke · EMS Number: · Stowage Category	Warning: Flammable liquids. emler code): 30 F-E,S-D A
Transport in bulk according to Annex I Marpol and the IBC Code	ll of Not applicable.
Transport/Additional information:	
· ADG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
· Transport category · Tunnel restriction code	3 D/E
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 100 ml
UN "Model Regulation":	UN1120, BUTANOLS, mixture, 3, III

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

71-36-3 butan-1-ol

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

- · Directive 2012/18/EU
 - · Qualifying quantity (tonnes) for the application of lower-tier requirements 5.000 t
 - · Qualifying quantity (tonnes) for the application of upper-tier requirements 50.000 t

(Contd. on page 8)



Page 8/9

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

(Contd. of page 7)

· National regulations:

Class	Share in %
NK	100.0

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

· Department issuing SDS:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

Customer Support

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

AUSTRALIA

Bio-Rad Laboratories Pty. Ldt. Level 5, 446 Vistoria Road Gladesville NSW 2111 Phone: +61-2-9914-2800 Fax: +61-2-9914-2888

· Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

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

(Contd. on page 9)



Page 9/9

Safety Data Sheet according to WHS Regulations

Printing date 01.11.2020 Version number 6 Revision: 17.07.2015

Trade name: Reagent B - Clarifying Solution

(Contd. of page 8)

Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3



Page 1/6

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

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

1 Identification

- · Product identifier
 - · Trade name: Reagent C Resolving Buffer
 - · Article number: 5144D
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

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

Bio-Rad

3, Boulevard Raymond Poincaré F-92430 Marnes-la-Coquette Tel.: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33

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

- · Further information obtainable from: Customer Support.
- · Emergency telephone number: See item 16

2 Hazard(s) Identification

· Classification of the substance or mixture

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

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

3 Composition and Information on Ingredients

- · Chemical characterisation: Mixtures
 - · **Description:** Mixture without a chemical hazard.
 - · Dangerous components: Void
 - Additional information: For the wording of the listed hazard phrases refer to section 16.

AUS

(Contd. on page 2)



Page 2/6

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent C - Resolving Buffer

(Contd. of page 1)

4 First Aid Measures

- Description of first aid measures
 - · General information: No special measures required.
 - · After inhalation: Supply fresh air; consult doctor in case of complaints.
 - After skin contact: Generally the product does not irritate the skin.
 - · After eye contact: Rinse opened eye for several minutes under running water.
 - After swallowing: 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: CO2, 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 to enter sewers/ surface or ground water.

- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Reference to other sections No dangerous substances are released.

7 Handling and Storage

- · Handling:
 - · Precautions for safe handling

Keep receptacles tightly sealed.

Avoid all contact with reagents, even those considered to be non-hazardous.

Follow good laboratory practices.

- · Information about fire and explosion protection: 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.

(Contd. on page 3)





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent C - Resolving Buffer

(Contd. of page 2)

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

8 Exposure controls and personal protection

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

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

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

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

- · **Respiratory protection:** Suitable respiratory protective device recommended.
- · Protection of hands:

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

· Eye protection: Goggles recommended during refilling

9 Physical and Chemical Properties

Information on basic physical and c General Information	hemical properties
· Appearance:	
· Form:	Fluid
· Colour:	Green
· Odour:	Weak, characteristic
· Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling	g range: Undetermined.
· Flash point:	Not applicable.
· Auto-ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product does not present an explosion hazard.
· Density:	Not determined.
· Solubility in / Miscibility with	
· water:	Fully miscible.
· Other information	No further relevant information available.

- AUS



Page 4/6

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent C - Resolving Buffer

(Contd. of page 3)

10 Stability and Reactivity

- · Reactivity No further relevant information available.
 - · Chemical stability
 - · Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological Information

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

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

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

12 Ecological Information

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

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

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

ALIS





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent C - Resolving Buffer

(Contd. of page 4)

13 Disposal considerations

- · Waste treatment methods
 - · Recommendation

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

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

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

15 Regulatory information

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

· Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

(Contd. on page 6)



Page 6/6

Safety Data Sheet

according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 17.07.2015

Trade name: Reagent C - Resolving Buffer

(Contd. of page 5)

· 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 61 85

Customer Support

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

AUSTRALIA

Bio-Rad Laboratories Pty. Ldt. Level 5, 446 Vistoria Road Gladesville NSW 2111 Phone: +61-2-9914-2800

Fax: +61-2-9914-2888

· Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

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

AUS





according to WHS Regulations

Version number 5 Revision: 29.09.2015 Printing date 01.11.2020

Hazardous according to criteria of Safe Work Australia.

1 Identification

- · Product identifier
 - · Trade name: Reagent PK Proteinase K
 - · Article number:

5144E

5169M

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

Bio-Rad

3, Boulevard Raymond Poincaré F-92430 Marnes-la-Coquette

Tel.: +33 (0)1 47 95 60 00 Fax: +33 (0)1 47 41 91 33

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

- · Further information obtainable from: Customer Support.
- · Emergency telephone number: See item 16

2 Hazard(s) Identification

Classification of the substance or mixture



health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

- · Label elements
 - GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

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

Proteinase. Tritirachium album serine

· Hazard statements

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

· Precautionary statements

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

In case of inadequate ventilation wear respiratory protection.

IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

(Contd. on page 2)





according to WHS Regulations

Version number 5 Revision: 29.09.2015 Printing date 01.11.2020

Trade name: Reagent PK - Proteinase K

(Contd. of page 1)

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

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

3 Composition and Information on Ingredients

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

· Dangerous components:			
56-81-5	glycerol	0.1-2.5%	
39450-01-6	Proteinase, Tritirachium album serine	0.1-2.5%	
	Resp. Sens. 1, H334 Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335		

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

4 First Aid Measures

- Description of first aid measures
 - · After inhalation: Supply fresh air; consult doctor in case of complaints.
 - · After skin contact: Immediately wash with water and soap and rinse thoroughly.
 - · After eye contact: Rinse opened eye for several minutes under running water.
 - · After swallowing: Call for a doctor immediately.
 - · Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire Fighting Measures

- Extinguishing media
 - Suitable extinguishing agents:

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

Use fire extinguishing methods suitable to surrounding conditions.

- · 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.

(Contd. on page 3)





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 29.09.2015

Trade name: Reagent PK - Proteinase K

(Contd. of page 2)

- Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up:

Absorb liquid components with liquid-binding material.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and Storage

- · Handling:
 - · Precautions for safe handling

Keep receptacles tightly sealed.

Follow good laboratory practices.

- · Information about fire and explosion protection: 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 and personal protection

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

56-81-5 glycerol

NES Long-term value: 10 mg/m³

- Additional information: The lists valid during the making were used as basis.
- · Personal protective equipment:
 - · General protective and hygienic measures: Wash hands before breaks and at the end of work.
 - · Respiratory protection: 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

(Contd. on page 4)





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 29.09.2015

Trade name: Reagent PK - Proteinase K

	(Contd. of page a		
· Colour:	Red		
· Odour:	Weak, characteristic		
· pH-value:	Not determined.		
· Change in condition · Initial boiling point and boiling range: Undetermined.			
· Flash point:	Not applicable.		
· Explosive properties:	Product does not present an explosion hazard.		
· Density:	Not determined.		
· Solubility in / Miscibility with			
water:	Fully miscible.		
· Other information	No further relevant information available.		

10 Stability and Reactivity

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

11 Toxicological Information

- · Information on toxicological effects
 - · Additional toxicological information:

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

Harmful

12 Ecological Information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
 - · Bioaccumulative potential No further relevant information available.
 - · Mobility in soil No further relevant information available.
- Additional ecological information:
 - · General notes: Avoid transfer into the environment.

(Contd. on page 5)





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 29.09.2015

Trade name: Reagent PK - Proteinase K

(Contd. of page 4)

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

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

15 Regulatory information

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

Australian Inventory of Industrial Chemicals		
56-81-5	glycerol	
7732-18-5	water, distilled, conductivity or of similar purity	
	(Contd. on page 6)	

___ ALIG





according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 29.09.2015

Trade name: Reagent PK - Proteinase K

(Contd. of page 5)

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Directive 2012/18/EU

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

· National regulations:

Class	Share in %
I	1.7
NK	2.4

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

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

Department issuing SDS:

MSDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

Customer Support

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

AUSTRALIA

Bio-Rad Laboratories Pty. Ldt. Level 5, 446 Vistoria Road Gladesville NSW 2111 Phone: +61-2-9914-2800

Fax: +61-2-9914-2888

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

(Contd. on page 7)



Page 7/7

Safety Data Sheet according to WHS Regulations

Printing date 01.11.2020 Version number 5 Revision: 29.09.2015

Trade name: Reagent PK - Proteinase K

(Contd. of page 6)

Resp. Sens. 1: Respiratory sensitisation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

AUS