

KIT COMPONENTS

Product name: Monolisa™ Anti-HBs PLUS, 192 Tests Product code: 72566

Article number	Description	Quantity	Symbols
7441A	R1 - Microplate, 12 x 8 wells	2	
7360T	R2 - 20 x Conc. Washing Solution, 235 ml	1	GHS07
7441C	C0 - Anti-HBs Negative Control, 2.2 ml	1	GHS07
7441E	C1 - 10 mIU/ml Calibrator, 3 ml	1	GHS07
7441D	C2 - 100 mIU/ml Calibrator / Positive Control, 2.2 ml	1	GHS07
7441V	C3 - 400 mIU/ml Calibrator, 2.2 ml	1	GHS07
7441F	C4 - 1000 mIU/ml Calibrator, 2.2 ml	1	GHS07
7441B	R6 - Specimen Diluent, 27 ml	1	GHS07
7441G	R7a - Conjugate (conc. 11x), 2.5 ml	1	GHS07
7441H	R7b - Conjuate Diluent, 25 ml	1	GHS07
7360G	R8 - Substrat Buffer, 60 mL	1	
7436H	R9 - Chromogen: TMB Solution, 5 ml	1	GHS05
7360J	R10 - Stopping Solution, 28 ml	1	GHS05 GHS08





Printing date 08/05/2015 Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: R1 Microplate, 12 x 8 wells
 - · Article number: 7441A
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

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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

- · Information department: Customer support.
- Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) 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

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

3 Composition/information on ingredients

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

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Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R1 - Microplate, 12 x 8 wells

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· 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.

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

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

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear disposable gloves.
- Environmental precautions: Do not allow product to reach sewage system or any water course.
- Methods and material for containment and cleaning up: Pick up mechanically.
- · 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.

- 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.

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Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R1 - Microplate, 12 x 8 wells

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· 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.
- · Exposure controls
 - 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: SolidColor: ColorlessOdor: Odorless

- · Change in condition
 - · Melting point/Melting range: Undetermined.

· Flash point: Not applicable.

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

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Insoluble.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · Chemical stability
 - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R1 - Microplate, 12 x 8 wells

(Contd. of page 3)

· 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.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

- Waste treatment methods
 - **Recommendation:** Must be specially treated adhering to official regulations.
- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.
 - · Recommended cleansing agent: Water, if necessary with cleansing agents.

USA

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R1 - Microplate, 12 x 8 wells

(Contd. of page 4)

LIM Manuels en	
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void
· · · · · · · · · · · · · · · · · · ·	Void
UN proper shipping name	W. C.
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
Packing group	
DOT, 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.
Transport/Additional information:	Not dangerous according to the above specifications
UN "Model Regulation":	<u> </u>

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):

None of the ingredients is listed.

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R1 - Microplate, 12 x 8 wells

(Contd. of page 5)

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

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USA

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- · Date of preparation / last revision 08/05/2015 / 1
 - · 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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)





Printing date 08/05/2015

Reviewed on 07/01/2015

1 Identification

- · Product identifier
 - · Trade name: R2 20 x Conc. Washing Solution, 235 ml
 - · Article number:

7360T

7361E

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

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

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- · Information department: Customer support.
- · Emergency telephone number:

See item 16

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2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R2 - 20 x Conc. Washing Solution, 235 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

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

	Winter Containing Nazardodo Componente.	
· Dangero	ous components:	
77-86-1	trometamol	0.1-2.5%
	♦ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	
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)	<0.01%
	Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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



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Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R2 - 20 x Conc. Washing Solution, 235 ml

(Contd. of page 2)

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.

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:
 - \cdot 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.
- · Exposure controls
 - 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:

Fluid

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R2 - 20 x Conc. Washing Solution, 235 ml

(Contd. of page 3)

· Color: Colorless
· Odor: Odorless

· pH-value at 20 °C (68 °F): 7.4

· 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.

Other information No further relevant information available.

10 Stability and reactivity

- Reactivity
 - · 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
 - · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R2 - 20 x Conc. Washing Solution, 235 ml

(Contd. of page 4)

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

13 Disposal considerations

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

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

USA

(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R2 - 20 x Conc. Washing Solution, 235 ml

(Contd. of page 5)

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):

7647-14-5 sodium chloride

77-86-1 trometamol

9005-64-5 TWEEN 20

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

Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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USA

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(Contd. on page 7)



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Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R2 - 20 x Conc. Washing Solution, 235 ml

(Contd. of page 6)

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

Date of preparation / last revision 08/05/2015 / 2

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

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

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - Trade name: C0 Anti-HBs Negative Control, 2.2 ml
 - · Article number: 7441C
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

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- · Information department: Customer support.
- **Emergency telephone number:**

See item 16

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2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C0 - Anti-HBs Negative Control, 2.2 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 0

· Other hazards

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

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)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331

Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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

6 Accidental release measures

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

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Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C0 - Anti-HBs Negative Control, 2.2 ml

(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 liquid components with liquid-binding material.

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

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

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

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C0 - Anti-HBs Negative Control, 2.2 ml

(Contd. of page 3)

· Color: Light yellow · 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.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - 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:
 - · Sensitization: Sensitization possible through skin contact.
 - Additional toxicological information:

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

Irritant

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C0 - Anti-HBs Negative Control, 2.2 ml

(Contd. of page 4)

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

13 Disposal considerations

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

UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
Packing group	
DOT, 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.
Transport/Additional information:	Not dangerous according to the above specifications
UN "Model Regulation":	

USA

(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C0 - Anti-HBs Negative Control, 2.2 ml

(Contd. of page 5)

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):
- 7647-14-5 sodium chloride
- 7558-79-4 disodium hydrogenorthophosphate
- 7778-77-0 potassium dihydrogenorthophosphate
- 7732-18-5 water, distilled, conductivity or of similar purity
 - Proposition 65
 - · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

USA

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C0 - Anti-HBs Negative Control, 2.2 ml

(Contd. of page 6)

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

Date of preparation / last revision 08/05/2015 / 1

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists
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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: C1 10 mIU/ml Calibrator, 3 ml
 - · Article number: 7441E
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré

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

- · Information department: Customer support.
- · Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C1 - 10 mlU/ml Calibrator, 3 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - **Description:**

Contains components of human origin. Mixture containing hazardous components.

· Dangerous components:

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-0.01-0.1% 7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C1 - 10 mlU/ml Calibrator, 3 ml

(Contd. of page 2)

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.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

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

USA

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C1 - 10 mlU/ml Calibrator, 3 ml

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form: Fluid · Color: Yellow · 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.

Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · **Sensitization:** Sensitization possible through skin contact.
 - · Additional toxicological information:

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

Irritant

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C1 - 10 mlU/ml Calibrator, 3 ml

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

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

UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
Packing group	
DOT, 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.
Transport/Additional information:	Not dangerous according to the above specifications





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C1 - 10 mlU/ml Calibrator, 3 ml

(Contd. of page 5)

· UN "Model Regulation":

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):
- 7647-14-5 sodium chloride
- 7558-79-4 disodium hydrogenorthophosphate
- 7778-77-0 potassium dihydrogenorthophosphate
- 7732-18-5 water, distilled, conductivity or of similar purity
 - Proposition 65
 - Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C1 - 10 mlU/ml Calibrator, 3 ml

(Contd. of page 6)

· Contact:

Customer Support

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

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / 1

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: C2 100 mlU/ml Calibrator / Positive Control, 2.2 ml
 - · Article number: 7441D
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- **Emergency telephone number:**

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C2 - 100 mlU/ml Calibrator / Positive Control, 2.2 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - · Description:

Contains components of human origin.

Mixture containing hazardous components.

· Dangerous components:

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500- 0.01-0.1%]

7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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

USA -





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C2 - 100 mIU/ml Calibrator / Positive Control, 2.2 ml

(Contd. of page 2)

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.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
 - Precautions for safe handling

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

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

USA

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C2 - 100 mlU/ml Calibrator / Positive Control, 2.2 ml

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Appearance:

Form: FluidColor: Light greenOdor: 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.

Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · **Sensitization:** Sensitization possible through skin contact.
 - · Additional toxicological information:

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

Irritant

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C2 - 100 mlU/ml Calibrator / Positive Control, 2.2 ml

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

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

UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
Packing group	
DOT, 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.
Transport/Additional information:	Not dangerous according to the above specifications





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C2 - 100 mlU/ml Calibrator / Positive Control, 2.2 ml

(Contd. of page 5)

· UN "Model Regulation":

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):
- 7647-14-5 sodium chloride
- 7558-79-4 disodium hydrogenorthophosphate
- 7778-77-0 potassium dihydrogenorthophosphate
- 7732-18-5 water, distilled, conductivity or of similar purity
 - Proposition 65
 - · Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C2 - 100 mlU/ml Calibrator / Positive Control, 2.2 ml

(Contd. of page 6)

· Contact:

Customer Support

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

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / 1

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: C3 400 mlU/ml Calibrator, 2.2 ml
 - · Article number: 7441V
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré

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

- · Information department: Customer support.
- · Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C3 - 400 mIU/ml Calibrator, 2.2 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - **Description:**

Contains components of human origin. Mixture containing hazardous components.

· Dangerous components:

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-0.01-0.1% 7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C3 - 400 mIU/ml Calibrator, 2.2 ml

(Contd. of page 2)

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.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

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





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C3 - 400 mIU/ml Calibrator, 2.2 ml

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Appearance:

· Form: Fluid
· Color: Green
· Odor: 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.

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

Other information
 No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · **Sensitization:** Sensitization possible through skin contact.
 - · Additional toxicological information:

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

Irritant

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C3 - 400 mIU/ml Calibrator, 2.2 ml

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

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

UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
· DOT, 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.
Transport/Additional information:	Not dangerous according to the above specifications





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C3 - 400 mIU/ml Calibrator, 2.2 ml

(Contd. of page 5)

· UN "Model Regulation":

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):
- 7647-14-5 sodium chloride
- 7558-79-4 disodium hydrogenorthophosphate
- 7778-77-0 potassium dihydrogenorthophosphate
- 7732-18-5 water, distilled, conductivity or of similar purity
 - Proposition 65
 - Chemicals known to cause cancer:

None of the ingredients is listed.

 \cdot Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C3 - 400 mIU/ml Calibrator, 2.2 ml

(Contd. of page 6)

· Contact:

Customer Support

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

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / 1

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: C4 1000 mIU/ml Calibrator, 2.2 ml
 - · Article number: 7441F
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- **Emergency telephone number:**

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C4 - 1000 mlU/ml Calibrator, 2.2 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

- · Chemical characterization: Mixtures
 - **Description:**

Contains components of human origin. Mixture containing hazardous components.

· Dangerous components:

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-0.01-0.1% 7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C4 - 1000 mlU/ml Calibrator, 2.2 ml

(Contd. of page 2)

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.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

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

USA

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C4 - 1000 mlU/ml Calibrator, 2.2 ml

(Contd. of page 3)

9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

Form: FluidColor: Dark greenOdor: 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.

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · **Sensitization:** Sensitization possible through skin contact.
 - · Additional toxicological information:

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

Irritant

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C4 - 1000 mlU/ml Calibrator, 2.2 ml

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

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

UN-Number	
· DOT, ADR, ADN, IMDG, IATA	Void
UN proper shipping name	
· DOT, ADN, IMDG, IATA	Void
· ADR	Void
Transport hazard class(es)	
· DOT, ADR, ADN, IMDG, IATA	
· Class	Void
Packing group	
DOT, 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.
Transport/Additional information:	Not dangerous according to the above specifications





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C4 - 1000 mlU/ml Calibrator, 2.2 ml

(Contd. of page 5)

· UN "Model Regulation":

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):
- 7647-14-5 sodium chloride
- 7558-79-4 disodium hydrogenorthophosphate
- 7778-77-0 potassium dihydrogenorthophosphate
- 7732-18-5 water, distilled, conductivity or of similar purity
 - Proposition 65
 - Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: C4 - 1000 mIU/ml Calibrator, 2.2 ml

(Contd. of page 6)

· Contact:

Customer Support

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

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / -

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: R6 Specimen Diluent, 27 ml
 - · Article number: 7441B
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R6 - Specimen Diluent, 27 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

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

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] <0.01% and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331

Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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

6 Accidental release measures

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

(Contd. on page 3)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R6 - Specimen Diluent, 27 ml

(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 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

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

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

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R6 - Specimen Diluent, 27 ml

(Contd. of page 3)

· 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.

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · Sensitization: Sensitization possible through skin contact.
 - · Additional toxicological information:

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

Irritant

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- $\cdot \mbox{ \begin{tabular}{l} \textbf{Persistence and degradability} No further relevant information available. \end{tabular}}$

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R6 - Specimen Diluent, 27 ml

(Contd. of page 4)

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

13 Disposal considerations

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

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

USA

(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R6 - Specimen Diluent, 27 ml

(Contd. of page 5)

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):

9005-64-5	TWEEN 20
77-86-1	trometamol
60-00-4	edetic acid
COCOE OO O	Duamaauaaali

62625-30-3 Bromocresol Purple sodium salt

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

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

USA

Bio-Rad Laboratories 6565 185th Avenue NE

(Contd. on page 7)



Page 7/7

Safety Data Sheet 29 CFR Part 1910.1200

Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R6 - Specimen Diluent, 27 ml

(Contd. of page 6)

Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / -

· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: R7a Conjugate (conc. 11x), 2.5 ml
 - · Article number: 7441G
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- **Emergency telephone number:**

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

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

Health = 0Fire = 0

Reactivity = 0

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7a - Conjugate (conc. 11x), 2.5 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0 Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

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

· Dangero	us components:	
56-81-5	glycerol	10-25%
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. 3, H311; Acute Tox. 3, H331 Skin Corr. 1B, H314	0.01-0.1%
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1, 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.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7a - Conjugate (conc. 11x), 2.5 ml

(Contd. of page 2)

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.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

56-81-5 glycerol

PEL 15* 5** mg/m³

*total dust **respirable fraction

TLV 10* ppm

*Mist

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

- · Exposure controls
 - · Personal protective equipment:
 - · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

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

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7a - Conjugate (conc. 11x), 2.5 ml

(Contd. of page 3)

· Eye protection: Safety glasses

9 Physical and chemical properties

· Information on basic physical and chemical properties

General Information

· Appearance:

· Form: Viscous · Color: Green

· 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.

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

· Solvent content:

· Organic solvents: 20.0 % · VOC content: 20.0 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · Sensitization: Sensitization possible through skin contact.
 - Additional toxicological information:

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

İrritant

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7a - Conjugate (conc. 11x), 2.5 ml

(Contd. of page 4)

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

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

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

(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7a - Conjugate (conc. 11x), 2.5 ml

	(Contd. of page 5
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
 Transport in bulk according to Annex MARPOL73/78 and the IBC Code 	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	-

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

77-86-1 trometamol

7647-14-5 sodium chloride

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

· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

Class	Share in %
NK	20.0

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7a - Conjugate (conc. 11x), 2.5 ml

(Contd. of page 6)

· 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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

USA

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

Date of preparation / last revision 08/05/2015 / 1

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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

VOC: Volatile Organic Compounds (USA, EU)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/02/2015

1 Identification

- · Product identifier
 - · Trade name: R7b Conjuate Diluent, 25 ml
 - · Article number: 7441H
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS07

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

- · 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.

· Precautionary statements

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

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

If on skin: Wash with plenty of water.

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

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7b - Conjuate Diluent, 25 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 0Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

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

55965-84-9 reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] <0.01% and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331

Skin Corr. 1B, H314

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1, 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.
 - Indication of any immediate medical attention and special treatment needed.
 No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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

6 Accidental release measures

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

(Contd. on page 3)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7b - Conjuate Diluent, 25 ml

(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 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

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

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

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
 - · 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: Light yellow

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7b - Conjuate Diluent, 25 ml

(Contd. of page 3)

· 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.

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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:
 - · Sensitization: Sensitization possible through skin contact.
 - · Additional toxicological information:

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

Irritant

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

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

- · Toxicity
 - · Aquatic toxicity: No further relevant information available.
- $\cdot \mbox{ \begin{tabular}{l} \textbf{Persistence and degradability} No further relevant information available. \end{tabular}}$

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7b - Conjuate Diluent, 25 ml

(Contd. of page 4)

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

13 Disposal considerations

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

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

USA

(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/02/2015

Trade name: R7b - Conjuate Diluent, 25 ml

(Contd. of page 5)

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):

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

- Proposition 65
 - · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

USA

Bio-Rad Laboratories 6565 185th Avenue NE

Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / 1

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Safety Data Sheet 29 CFR Part 1910.1200

Reviewed on 07/02/2015 Printing date 08/05/2015

Trade name: R7b - Conjuate Diluent, 25 ml

(Contd. of page 6)

· 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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists
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)

Acute Tox. 3: Acute toxicity, Hazard Category 3

Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1





Printing date 08/05/2015

Reviewed on 07/06/2015

1 Identification

- · Product identifier
 - · Trade name: R8 Substrat Buffer, 60 mL
 - · Article number:

7360G 5085S

5180S

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

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- · Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) 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

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





Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R8 - Substrat Buffer, 60 mL

(Contd. of page 1)

3 Composition/information on ingredients

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

67-68-5 dimethyl sulfoxide

2.5-10%

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.

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

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

6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear 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

No dangerous substances are released.

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

JSA -

(Contd. on page 3)





Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R8 - Substrat Buffer, 60 mL

(Contd. of page 2)

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:

67-68-5 dimethyl sulfoxide

WEEL 250 ppm

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

The usual precautionary measures 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
Odour threshold: Not determined.

- · pH-value at 20 °C (68 °F): 4
- · Change in condition
 - Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: Undetermined.
- · Flash point: Not applicable.

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R8 - Substrat Buffer, 60 mL

(Contd. of page 3)

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

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

· Solvent content:

· VOC content: 4.0 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · 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)

7722-84-1 hydrogen peroxide solution

3

NTP (National Toxicology Program)

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

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 5)





Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R8 - Substrat Buffer, 60 mL

(Contd. of page 4)

- · Additional ecological information:
 - · General notes:

Avoid transfer into the environment.

Water hazard class 1 (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 packagings:
 - **Recommendation:** Disposal must be made according to official regulations.
 - · Recommended cleansing agent: Water, if necessary with cleansing agents.

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

15 Regulatory information

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

· Section 355 (extremely hazardous substances):	
7722-84-1 hydrogen peroxide solution	
	(Contd. on page 6)





Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R8 - Substrat Buffer, 60 mL

(Contd. of page 5)

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

- · Proposition 65
 - · Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

7722-84-1 hydrogen peroxide solution

A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· National regulations:

Class	Share in %
NK	4.0

· 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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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

USA

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

- · Date of preparation / last revision 08/05/2015 / -
 - · 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)

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Safety Data Sheet 29 CFR Part 1910.1200

Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R8 - Substrat Buffer, 60 mL

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transportation
ACGIH: American Conference of Governmental Industrial Hygienists
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)
VOC: Volatile Organic Compounds (USA, EU)

USA





Printing date 08/05/2015

Reviewed on 07/01/2015

1 Identification

- · Product identifier
 - · Trade name: R9 Chromogen: TMB Solution, 5 ml
 - · Article number: 7436H
 - · Relevant identified uses of the substance or mixture and uses advised against

No further relevant information available.

- · Application of the substance / the mixture In vitro diagnostic medical device or component.
- · Details of the supplier of the safety data sheet
 - · Manufacturer/Supplier:

Bio-Rad

3, Boulevard Raymond Poincaré 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

- · Information department: Customer support.
- **Emergency telephone number:**

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- · Label elements
 - · GHS label elements

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

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

hydrochloric acid

Hazard statements

Causes severe skin burns and eye damage.

· Precautionary statements

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

If swallowed: Rinse mouth. Do NOT induce vomiting.

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.

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

Health = 4

Fire = 0

Reactivity = 0

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R9 - Chromogen: TMB Solution, 5 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = 4Fire = 0Reactivity = 0

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

3 Composition/information on ingredients

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

4 First-aid measures

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

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

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eye contact:

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

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
 - · Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed. No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - · Suitable extinguishing agents:

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

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

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

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).

(Contd. on page 3)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R9 - Chromogen: TMB Solution, 5 ml

(Contd. of page 2)

Use neutralizing agent.

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 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: 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:

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

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

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

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: Fluid · Color: Pink

· Odor: Weak, characteristic

(Contd. on page 4)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R9 - Chromogen: TMB Solution, 5 ml

(Contd. of page 3)

• **pH-value at 20 °C (68 °F):** 1.5

· 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:

· VOC content: 0.1 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · Chemical stability
 - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:
 - · Primary irritant effect:
 - · on the skin: Strong caustic effect on skin and mucous membranes.
 - · on the eye: Strong caustic effect.
 - · Sensitization: No sensitizing effects known.
 - · Additional toxicological information:

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

Corrosive

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

NTD (National Taxicales», Drawrom)

Fuchsine (basic) 2B

· NTP (National Toxicology Program)

None of the ingredients is listed.

(Contd. on page 5)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R9 - Chromogen: TMB Solution, 5 ml

(Contd. of page 4)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

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

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

ontd. on page 6





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R9 - Chromogen: TMB Solution, 5 ml

(Contd. of page 5)

· UN "Model Regulation":

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):

64-17-5 ethanol

Fuchsine (basic)

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

- · Proposition 65
 - Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

64-17-5 ethanol

- · Cancerogenity categories
 - · EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

64-17-5 ethanol

A3

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 7)





Printing date 08/05/2015 Reviewed on 07/01/2015

Trade name: R9 - Chromogen: TMB Solution, 5 ml

(Contd. of page 6)

· Contact:

Customer Support

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

LISA

Bio-Rad Laboratories 6565 185th Avenue NE Redmond, WA 98052-5039

Phone Number: 1-800-2BIORAD (1-800-224-6723) or (425) 881-8300 (daytime PST)

· Date of preparation / last revision 08/05/2015 / -

· 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

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists 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)

VOC: Volatile Organic Compounds (USA, EU)

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

USA





Printing date 08/05/2015 Reviewed on 07/06/2015

1 Identification

- · Product identifier
 - · Trade name: R10 Stopping Solution, 28 ml
 - · Article number:

7360J 5180U

7361H

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

Bio-Rad

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

Fax: +33 (0)1 47 41 91 33 e-mail: fds-msds.fr@bio-rad.com

- · Information department: Customer support.
- · Emergency telephone number:

See item 16

+33 (0)1 47 95 62 77

2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 1A H350 May cause cancer.



GHS05 Corrosion

Skin Corr. 1A H314 Causes severe skin burns and eye damage.

- · Label elements
 - · GHS label elements

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

- · Hazard pictograms GHS05, GHS08
- · Signal word Danger
- · Hazard-determining components of labeling:

sulphuric acid

Hazard statements

Causes severe skin burns and eye damage.

May cause cancer.

· Precautionary statements

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

If swallowed: Rinse mouth. Do NOT induce vomiting.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

(Contd. on page 2)





Printing date 08/05/2015 Reviewed on 07/06/2015

Trade name: R10 - Stopping Solution, 28 ml

(Contd. of page 1)

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

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

Health = 1

Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 1

Fire = 0

Reactivity = 0

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

3 Composition/information on ingredients

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

7664-93-9 sulphuric acid

& Carc. 1A, H350

Met. Corr.1, H290; Skin Corr. 1A, H314

2.5-10%

4 First-aid measures

- · Description of first aid measures
 - · General information: Immediately remove any clothing soiled by the product.
 - · After inhalation: Supply fresh air; consult doctor in case of complaints.
 - · After skin contact: Immediately wash with water and soap and rinse thoroughly.
 - · After eye contact:

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

- · After swallowing: Immediately call a doctor.
- · Information for doctor:
 - Most important symptoms and effects, both acute and delayed No further relevant information available.
 - · Indication of any immediate medical attention and special treatment needed No further relevant information available.

5 Fire-fighting measures

- · Extinguishing media
 - Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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

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· 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:

Use neutralizing agent.

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· Reference to other sections No dangerous substances are released.

7 Handling and storage

- · Handling:
 - · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

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

8 Exposure controls/personal protection

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

7664-93-9 sulphuric acid

PEL 1 mg/m³

REL 1 mg/m³

TLV | 0.2* mg/m³

*as thoracic fraction

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

The usual precautionary measures for handling chemicals should be followed.

• Breathing equipment: Suitable respiratory protective device recommended.

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· 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

· pH-value at 20 °C (68 °F): < 2

· 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.

· Solvent content:

· Organic solvents: 0 % · Water: 95.2 %

• Other information No further relevant information available.

10 Stability and reactivity

- · Reactivity
 - · Chemical stability
 - Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

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

11 Toxicological information

- · Information on toxicological effects
 - · Acute toxicity:
 - · Primary irritant effect:
 - · on the skin: Irritant to skin and mucous membranes.
 - on the eye: Strong irritant with the danger of severe eye injury.

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· Additional toxicological information:

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

· Carcinogenic categories

· IARC (International Agency for Research on Cancer)

7664-93-9 sulphuric acid

1

· NTP (National Toxicology Program)

7664-93-9 sulphuric acid

K

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

12 Ecological information

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

13 Disposal considerations

- · Waste treatment methods
 - · Recommendation: Must be specially treated adhering to official regulations.
- · Uncleaned packagings:
 - · Recommendation: Disposal must be made according to official regulations.
 - · Recommended cleansing agent: Water, if necessary with cleansing agents.

4 Transport information		
· UN-Number		
· DOT	UN2796	
· ADR, IMDG, IATA	2796	
· UN proper shipping name		
· DOT, IMDG, IATA	SULPHURIC ACID	
· ADR	2796 SULPHURIC ACID	
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· Transport hazard class(es)
· DOT



· Class 8 Corrosive substances

· Label

· ADR



· Class 8 (C1) Corrosive substances

· Label

· IMDG, IATA



· Class 8 Corrosive substances

· Label

· Packing group

· DOT, ADR, IMDG, IATA

· Environmental hazards:

· Marine pollutant: No

· Special precautions for user Warning: Corrosive substances

Danger code (Kemler):EMS Number:F-A,S-B

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": UN2796, SULPHURIC ACID, 8, II

15 Regulatory information

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

· Section 355 (extremely hazardous substances):

7664-93-9 sulphuric acid

· Section 313 (Specific toxic chemical listings):

7664-93-9 sulphuric acid

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

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· Proposition 65

· Chemicals known to cause cancer:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients is listed.

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

7664-93-9 sulphuric acid

A2

· NIOSH-Ca (National Institute for Occupational Safety and Health)

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:

SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

· Contact:

Customer Support

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· Date of preparation / last revision 08/05/2015 / 2

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

DOT: US Department of Transportation IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

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Met. Corr.1: Corrosive to metals, Hazard Category 1 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Carc. 1A: Carcinogenicity, Hazard Category 1A

USA