

### KIT COMPONENTS

Product name: **PLATELIA™ Aspergillus IgG, 96 Tests** Product code: **62782** 

Article number	Description	Quantity	Symbols
6283A (USA)	R1 - Microplate	1	
7360S (USA)	R2 - 20 x Conc. Washing Solution, 70 ml	1	GHS07
6283B (USA)	R3 - Calibrator 0, 2.5 ml	1	GHS07
6283C (USA)	R4a - Calibrator 10, 2.5 ml	1	GHS07
6283D (USA)	R4b - Calibrator 20, 2.5 ml	1	GHS07
6283E (USA)	R4c - Calibrator 40, 2.5 ml	1	GHS07
6283F (USA)	R4d - Calibrator 80, 2.5 ml	1	GHS07
6283G (USA)	R6 - Conjugate, 26 ml	1	GHS07
6283H (USA)	R7a - Diluent 1, 28 ml	1	GHS07
6283J (ÙSA)	R7b - Diluent 2, 26 ml	1	GHS07
620585 ´	R9 - Chromogen TMB (28 ml)	1	
7360J (USA)	R10 - 1N Stopping solution, 28 ml	1	GHS05





Printing date 10/27/2020

Reviewed on 07/03/2015

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### 1 Identification

- · Product identifier
  - · Trade name: R1 Microplate
    - · Article number: 6283A (USA)
    - 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

# 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.

- USA

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Trade name: R1 - Microplate

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### 3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Description: Mixture without a chemical hazard.

· Dangerous components: Void

# 4 First-aid measures

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

# 5 Fire-fighting measures

- · Extinguishing media
  - Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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.

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Trade name: R1 - Microplate

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- 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:

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: Solid

· Color: According to product specification

· Odor: Odorless

· 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.

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Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R1 - Microplate

(Contd. of page 3)

· Solubility in / Miscibility with

Water: Insoluble.

• Other information No further relevant information available.

# 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

### 11 Toxicological information

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

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

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

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

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

· 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: Not hazardous for water.

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Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R1 - Microplate

(Contd. of page 4)

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

# 13 Disposal considerations

- · Waste treatment methods
  - · **Recommendation:** Must be specially treated adhering to official regulations.
- Uncleaned 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":	Void

# 15 Regulatory information

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

Section 355 (extremely hazardous substances):

None of the ingredient is listed.

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Trade name: R1 - Microplate

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· 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.

- 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 10/27/2020 / -
- · Abbreviations and acronyms:

ICAO: International Civil Aviation Organisation

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# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R1 - Microplate

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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)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit

USA





Printing date 10/27/2020

Reviewed on 07/02/2015

### 1 Identification

- · Product identifier
  - · Trade name: R2 20 x Conc. Washing Solution, 70 ml
    - · Article number: 7360S (USA)
    - 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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:

ProClin™ 300

· Hazard statements

May cause an allergic skin reaction.

**Precautionary statements** 

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

If on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 07/02/2015

Trade name: R2 - 20 x Conc. Washing Solution, 70 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:		
	Tris(hydroxymethyl)-aminomethane	0.1-2.5%
EEOCE 04 0	Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	z0.040/
əəybə-84-y	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. 2, H310; Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317	

#### 4 First-aid measures

- · Description of first aid measures
  - · After inhalation: Supply fresh air and to be sure call for a doctor.
  - · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - · After eye contact: Rinse opened eye for several minutes under running water.
  - · After swallowing: Immediately call a doctor.
  - · Information for doctor:
    - · Most important symptoms and effects, both acute and delayed No further relevant information available.
    - · 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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### Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R2 - 20 x Conc. Washing Solution, 70 ml

(Contd. of page 2)

### · Advice for firefighters

· Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

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

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Follow good laboratory practices.

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

#### 8 Exposure controls/personal protection

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

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

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R2 - 20 x Conc. Washing Solution, 70 ml

(Contd. of page 3)

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: Colorless
 · Odor: Odorless

· pH-value at 20 °C (68 °F): 7.4

· Change in condition

Melting point/Melting range: Undetermined.
 Boiling point/Boiling range: 100 °C (212 °F)

· Flash point: Not applicable.

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

· **Density:** Not determined.

· Solubility in / Miscibility with

• Water: Fully miscible.

• Other information No further relevant information available.

### 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

### 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · **Sensitization:** Sensitization possible through skin contact.

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Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R2 - 20 x Conc. Washing Solution, 70 ml

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# · 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.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Additional ecological information:
  - · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · 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	
		(Contd. on page 6)

USA





Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R2 - 20 x Conc. Washing Solution, 70 ml

		(Contd. of page
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	κ II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Void	

# 15 Regulatory information

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

. 8	· Section 355 (extremely hazardous substances):	
None of th	None of the ingredient is listed.	
. 8	· Section 313 (Specific toxic chemical listings):	
None of th	e ingredients is listed.	
· TSC	CA (Toxic Substances Control Act):	
7647-14-5	7647-14-5 sodium chloride	
	Tris(hydroxymethyl)-aminomethane	
9005-64-5	Polysorbate 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.

(Contd. on page 7)





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Trade name: R2 - 20 x Conc. Washing Solution, 70 ml

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#### 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 10/27/2020 / 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)

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity – Category 3 Acute Tox. 2: Acute toxicity – Category 2

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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

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# **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R2 - 20 x Conc. Washing Solution, 70 ml

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

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





Printing date 10/27/2020

Reviewed on 07/03/2015

### 1 Identification

- · Product identifier
  - · Trade name: R3 Calibrator 0, 2.5 ml
    - · Article number: 6283B (USA)
    - 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

# 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 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] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)

- Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330
- Skin Corr. 1C, H314; Eye Dam. 1, H318
- Aquatic Acute 1, H400; Aquatic Chronic 1, H410
- Skin Sens. 1A. H317

### 4 First-aid measures

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

(Contd. on page 3)



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# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 ml

(Contd. of page 2)

Advice for firefighters

· Protective equipment: No special measures required.

# 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 ml

(Contd. of page 3)

· 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
· Odor: Weak, characteristic

· **pH-value:** Neutral

· Change in condition

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

· Flash point: Not applicable.

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

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

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

• Other information No further relevant information available.

### 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 ml

(Contd. of page 4)

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

### 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 T	ransport in	formation

- · UN-Number
  - · DOT, ADR, ADN, IMDG, IATA Void
- · UN proper shipping name
  - · DOT, ADR, ADN, IMDG, IATA Void

(Contd. on page 6)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 ml

		(Contd. of page
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 <b>of</b> Not applicable.	
UN "Model Regulation":	Void	

# 15 Regulatory information

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

None of the	None of the ingredient is listed.	
· S	ection 313 (Specific toxic chemical listings):	
None of the	e ingredients is listed.	
· TSC	· TSCA (Toxic Substances Control Act):	
7647-14-5	sodium chloride	
9048-46-8	Albumins, blood serum	
	Tris(hydroxymethyl)-aminomethane	
9005-64-5	Polysorbate 20	
7732-18-5	water, distilled, conductivity or of similar purity	
. Pror	Proposition 65	

· 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:

Section 355 (extremely hazardous substances):

None of the ingredients is listed.

(Contd. on page 7)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 ml

(Contd. of page 6)

### · 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 10/27/2020 / 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity - Category 3

(Contd. on page 8)



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# **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R3 - Calibrator 0, 2.5 ml

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

USA





Printing date 10/27/2020

Reviewed on 07/03/2015

### 1 Identification

- · Product identifier
  - · Trade name: R4a Calibrator 10, 2.5 ml
    - · Article number: 6283C (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 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. Contains components of human origin.

· Dangerous components:

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

- Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330
- Skin Corr. 1C, H314; Eye Dam. 1, H318
  - Aquatic Acute 1, H400; Aquatic Chronic 1, H410
  - Number Skin Sens. 1A, H317

#### 4 First-aid measures

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

(Contd. on page 3)



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# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 ml

(Contd. of page 2)

· Advice for firefighters

· Protective equipment: No special measures required.

# 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 ml

(Contd. of page 3)

· 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: FluidColor: Light greenOdor: Weak, characteristic

· **pH-value:** Neutral

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

No decomposition if used according to specifications.

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

### 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · Sensitization: Sensitization possible through skin contact.
  - Additional toxicological information:

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

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 ml

(Contd. of page 4)

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.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- Additional ecological information:
  - · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · 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 Irans	sport in	tormation
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· UN-Number

· DOT, ADR, ADN, IMDG, IATA Void

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA Void

(Contd. on page 6)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 ml

		(Contd. of page
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 <b>of</b> Not applicable.	
UN "Model Regulation":	Void	

# 15 Regulatory information

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

· S	· Section 355 (extremely hazardous substances):	
None of the	e ingredient is listed.	
. 8	· Section 313 (Specific toxic chemical listings):	
None of the	e ingredients is listed.	
· TSC	· TSCA (Toxic Substances Control Act):	
7647-14-5	sodium chloride	
9048-46-8	Albumins, blood serum	
	Tris(hydroxymethyl)-aminomethane	
9005-64-5	Polysorbate 20	
76-59-5	bromothymol blue	
7732-18-5	water, distilled, conductivity or of similar purity	
None of the TSC 7647-14-5 9048-46-8 9005-64-5 76-59-5 7732-18-5	e ingredients is listed.  A (Toxic Substances Control Act):  sodium chloride  Albumins, blood serum  Tris(hydroxymethyl)-aminomethane  Polysorbate 20  bromothymol blue	

- · 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 7)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 ml

(Contd. of page 6)

### · 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 10/27/2020 / 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity - Category 3

(Contd. on page 8)



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# **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R4a - Calibrator 10, 2.5 ml

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

USA





Printing date 10/27/2020

Reviewed on 08/14/2015

### 1 Identification

- · Product identifier
  - · Trade name: R4b Calibrator 20, 2.5 ml
    - · Article number: 6283D (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 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. Contains components of human origin.

· Dangerous components:

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

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

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

Aquatic Acute 1, H400; Aquatic Chronic 1, H410

Skin Sens. 1A, H317

#### 4 First-aid measures

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

(Contd. on page 3)



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# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 ml

(Contd. of page 2)

· Advice for firefighters

· Protective equipment: No special measures required.

# 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 ml

· Protection of hands: Protective gloves

· Eye protection: Safety glasses

(Contd. of page 3)

# 9 Physical and chemical properties

· Information on basic physical and chemical properties

· General Information

· Appearance:

· Form: Fluid · Color: Green

· **Odor:** Weak, characteristic

· **pH-value:** Neutral

· Change in condition

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

· Flash point: Not applicable.

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

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

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

• Other information No further relevant information available.

### 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

# 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · **Sensitization**: Sensitization possible through skin contact.

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 ml

(Contd. of page 4)

# · 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.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Additional ecological information:
  - · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · 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.

4 Transport information		
· UN-Number · DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
DOT, ADR, ADN, IMDG, IATA	Void	

USA





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 ml

		(Contd. of page
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 <b>of</b> Not applicable.	
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· S	ection 355 (extremely hazardous substances):
None of the	e ingredient is listed.
· S	ection 313 (Specific toxic chemical listings):
None of the	e ingredients is listed.
·TSC	A (Toxic Substances Control Act):
7647-14-5	sodium chloride
9048-46-8	Albumins, blood serum
	Tris(hydroxymethyl)-aminomethane
9005-64-5	Polysorbate 20
76-59-5	bromothymol blue
7732-18-5	water, distilled, conductivity or of similar purity
· Pror	position 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 7)





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 ml

(Contd. of page 6)

### · 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 10/27/2020 / 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity - Category 3

(Contd. on page 8)



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## **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4b - Calibrator 20, 2.5 ml

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

USA





Printing date 10/27/2020

Reviewed on 08/14/2015

### 1 Identification

- · Product identifier
  - · Trade name: R4c Calibrator 40, 2.5 ml
    - · Article number: 6283E (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 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. Contains components of human origin.

· Dangerous components:

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

- Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330
- Skin Corr. 1C, H314; Eye Dam. 1, H318
- Aquatic Acute 1, H400; Aquatic Chronic 1, H410
- Skin Sens. 1A, H317

#### 4 First-aid measures

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

(Contd. on page 3)



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## Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 ml

(Contd. of page 2)

Advice for firefighters

· Protective equipment: No special measures required.

## 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 ml

(Contd. of page 3)

· 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: Green

· **Odor:** Weak, characteristic

· **pH-value:** Neutral

· Change in condition

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

· Flash point: Not applicable.

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

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

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

• Other information No further relevant information available.

### 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

## 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · **Sensitization**: Sensitization possible through skin contact.

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 ml

(Contd. of page 4)

# · 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.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- · Additional ecological information:
  - · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · 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	
		(Contd. on page 6)

USA





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 ml

		(Contd. of page
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 <b>of</b> Not applicable.	
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· S	ection 355 (extremely hazardous substances):
None of the	e ingredient is listed.
· S	ection 313 (Specific toxic chemical listings):
None of the	e ingredients is listed.
· TSC	A (Toxic Substances Control Act):
7647-14-5	sodium chloride
9048-46-8	Albumins, blood serum
	Tris(hydroxymethyl)-aminomethane
9005-64-5	Polysorbate 20
76-59-5	bromothymol blue
7732-18-5	water, distilled, conductivity or of similar purity
· Pror	position 65

- 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 7)





Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 ml

(Contd. of page 6)

### · 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 10/27/2020 / 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity - Category 3

(Contd. on page 8)



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## **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 08/14/2015

Trade name: R4c - Calibrator 40, 2.5 ml

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

USA





Printing date 10/27/2020

Reviewed on 07/06/2015

### 1 Identification

- · Product identifier
  - · Trade name: R4d Calibrator 80, 2.5 ml
    - · Article number: 6283F (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 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. Contains components of human origin.

· Dangerous components:

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

- Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330
- Skin Corr. 1C, H314; Eye Dam. 1, H318
- Aquatic Acute 1, H400; Aquatic Chronic 1, H410
- Number Skin Sens. 1A, H317

#### 4 First-aid measures

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

(Contd. on page 3)



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### Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 ml

(Contd. of page 2)

Advice for firefighters

· Protective equipment: No special measures required.

## 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 ml

(Contd. of page 3)

· 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: FluidColor: Dark greenOdor: Weak, characteristic

· pH-value: Neutral

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

No decomposition if used according to specifications.

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

### 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · Sensitization: Sensitization possible through skin contact.
  - Additional toxicological information:

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

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 ml

(Contd. of page 4)

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.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
  - · Bioaccumulative potential No further relevant information available.
  - · Mobility in soil No further relevant information available.
- Additional ecological information:
  - · General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water
- · 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.

KOBO	ookt I	Intorr	motion
IGIIO	9016		nation

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Void

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA Void

(Contd. on page 6)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 ml

		(Contd. of page
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 <b>of</b> Not applicable.	
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· S	ection 355 (extremely hazardous substances):
None of the	e ingredient is listed.
· S	ection 313 (Specific toxic chemical listings):
None of the	e ingredients is listed.
· TSC	A (Toxic Substances Control Act):
7647-14-5	sodium chloride
9048-46-8	Albumins, blood serum
	Tris(hydroxymethyl)-aminomethane
9005-64-5	Polysorbate 20
76-59-5	bromothymol blue
7732-18-5	water, distilled, conductivity or of similar purity
· Pror	position 65

- 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 7)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 ml

(Contd. of page 6)

### · 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 10/27/2020 / -
- · 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity – Category 3

(Contd. on page 8)



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## **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R4d - Calibrator 80, 2.5 ml

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Skin Sens. 1A: Skin sensitisation – Category 1A
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

USA





Printing date 10/27/2020

Reviewed on 04/29/2016

### 1 Identification

- · Product identifier
  - · Trade name: R6 Conjugate, 26 ml
    - · Article number: 6283G (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 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. Contains components of animal origin.

· Dangero	us components:	
	Tris(hydroxymethyl)-aminomethane	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)	0.01-0.1%
	Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
	Skin Sens. 1A, H317	

#### 4 First-aid measures

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

(Contd. on page 3)



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## Safety Data Sheet 29 CFR Part 1910,1200

Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 ml

(Contd. of page 2)

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

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 ml

(Contd. of page 3)

· 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

· **pH-value:** Neutral

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

No decomposition if used according to specifications.

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

### 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · Sensitization: Sensitization possible through skin contact.
  - Additional toxicological information:

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

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 ml

(Contd. of page 4)

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.
- · 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: The product may not be released into the environment without control.
- · Results of PBT and vPvB assessment
  - · **PBT:** Not applicable.
  - · **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

### 13 Disposal considerations

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

14	Trans	port	information

· UN-Number

· DOT, ADR, ADN, IMDG, IATA Void

· UN proper shipping name

· DOT, ADR, ADN, IMDG, IATA Void

(Contd. on page 6)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 ml

		(Contd. of page
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 Anne MARPOL73/78 and the IBC Code	x II of Not applicable.	
UN "Model Regulation":	Void	

## 15 Regulatory information

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

· S	ection 355 (extremely hazardous substances):
None of the	e ingredient is listed.
· S	ection 313 (Specific toxic chemical listings):
None of the	e ingredients is listed.
· TSC	A (Toxic Substances Control Act):
7647-14-5	sodium chloride
	Tris(hydroxymethyl)-aminomethane
9005-64-5	Polysorbate 20
143-74-8	Phenol Red
7732-18-5	water, distilled, conductivity or of similar purity
· Pro	position 65
· C	Chemicals known to cause cancer:
None of the	e ingredients is listed.
· C	chemicals known to cause reproductive toxicity for females:
None of the	e 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 7)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 ml

(Contd. of page 6)

### · 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 10/27/2020 / 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Tox. 3: Acute toxicity - Category 3

(Contd. on page 8)



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## **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R6 - Conjugate, 26 ml

(Contd. of page 7)

Acute Tox. 2: Acute toxicity – Category 2 Skin Corr. 1C: Skin corrosion/irritation – Category 1C Skin Irrit. 2: Skin corrosion/irritation – Category 2

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

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





Printing date 10/27/2020

Reviewed on 04/29/2016

### 1 Identification

- · Product identifier
  - · Trade name: R7a Diluent 1, 28 ml
    - · Article number: 6283H (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 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

	Wixtare containing nazaradae compenente.	
· Dangero	us components:	
67-66-3	trichloromethane Flam. Liq. 2, H225 Acute Tox. 2, H310; Acute Tox. 3, H331 Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.01-0.1%
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317	<0.01%

# 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.

(Contd. on page 3)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 ml

(Contd. of page 2)

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

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

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### 7 Handling and storage

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

### 8 Exposure controls/personal protection

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

67-66-3 Chloroform

TWA 2 ppm 9.78 mg/m3 1989-03-01 USA. OSHA - Table Z-1 Limits for Air Contaminants— 1910.1000

CEIL 50 ppm 240 mg/m3 1993-06-30 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

TWA 10 ppm 49 mg/m3 1996-05-18 USA. ACGIH Threshold Limit Values (TLV)

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 ml

(Contd. of page 3)

Page 4/8

- · 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: Dark red

· Odor: Weak, characteristic

· pH-value: Neutral

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

No decomposition if used according to specifications.

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

USA



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### Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 ml

(Contd. of page 4)

#### 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)	
67-66-3 trichloromethane	2B
· NTP (National Toxicology Program)	
67-66-3 trichloromethane	R
OSHA-Ca (Occupational Safety & Health Administration)	

None of the ingradients is listed

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: The product may not be released into the environment without control.
- Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

### 13 Disposal considerations

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

USA





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 ml

(Contd. of page 5)

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	c II of	
MARPOL73/78 and the IBC Code	Not applicable.	

# 15 Regulatory information

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

· 9	Section 355 (extremely hazardous substances):
67-66-3 tri	chloromethane
· <b>S</b>	ection 313 (Specific toxic chemical listings):
67-66-3 tri	chloromethane
·TSC	A (Toxic Substances Control Act):
7647-14-5	sodium chloride
9048-46-8	Albumins, blood serum
	Tris(hydroxymethyl)-aminomethane
9005-64-5	Polysorbate 20
67-66-3	trichloromethane
143-74-8	Phenol Red
7732-18-5	water, distilled, conductivity or of similar purity
D	acition CE

· Proposition 65

· Chemicals known to cause cancer:
67-66-3 | trichloromethane

(Contd. on page 7)





Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 ml

					(Contd. of pag
	· Chemicals I	known to cause repr	oductive toxicity f	for females:	
None of	the ingredient	s is listed.			
	· Chemicals I	known to cause repr	oductive toxicity f	for males:	
None of	the ingredient	s is listed.			
	· Chemicals I	known to cause deve	lopmental toxicit	y:	
67-66-3	trichlorometh	ane			
· C	ancerogenity	categories			
	· EPA (Enviro	onmental Protection	Agency)		
67-66-3	trichlorometh	ane			1
	· TLV (Thresh	nold Limit Value esta	blished by ACGIF	1)	
67-66-3	trichlorometh	ane			/
	· NIOSH-Ca (	National Institute for	Occupational Sat	fety and Health)	
67-66-3	trichlorometh	ane			
· Natio	nal regulatio	ons:			
Class	Share in %				
	0.1				

## 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 10/27/2020 / 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

(Contd. on page 8)



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## Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 04/29/2016

Trade name: R7a - Diluent 1, 28 ml

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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)

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity - Category 4

Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity – Category 3

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

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2A: Serious eye damage/eye irritation - Category 2A

Skin Sens. 1: Skin sensitisation - Category 1

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

Carc. 2: Carcinogenicity - Category 2

Repr. 2: Reproductive toxicity - Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

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





Printing date 10/27/2020

Reviewed on 07/06/2015

#### 1 Identification

- · Product identifier
  - · Trade name: R7b Diluent 2, 26 ml
    - · Article number: 6283J (USA)
    - 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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 on skin: Wash with plenty of water.

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

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 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 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

	Wixter of the ming hezer doub components.	
· Dangero	us components:	
67-66-3	trichloromethane Flam. Liq. 2, H225 Acute Tox. 2, H310; Acute Tox. 3, H331 Carc. 2, H351; Repr. 2, H361; STOT RE 1, H372 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2A, H319	0.01-0.1%
55965-84-9	reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7] and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)  Acute Tox. 3, H301; Acute Tox. 2, H310; Acute Tox. 2, H330 Skin Corr. 1C, H314; Eye Dam. 1, H318 Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Skin Sens. 1A, H317	<0.01%

# 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.

(Contd. on page 3)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 ml

(Contd. of page 2)

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

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

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Wear protective clothing.

Wear disposable gloves.

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

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

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

#### 8 Exposure controls/personal protection

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

67-66-3 Chloroform

TWA 2 ppm 9.78 mg/m3 1989-03-01 USA. OSHA - Table Z-1 Limits for Air Contaminants— 1910.1000

CEIL 50 ppm 240 mg/m3 1993-06-30 USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

TWA 10 ppm 49 mg/m3 1996-05-18 USA. ACGIH Threshold Limit Values (TLV)

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 ml

(Contd. of page 3)

- · 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

· **Odor:** Weak, characteristic

· pH-value: Neutral

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

No decomposition if used according to specifications.

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



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# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 ml

(Contd. of page 4)

#### 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)	
67-66-3	trichloromethane	2B
	· NTP (National Toxicology Program)	
67-66-3	trichloromethane	R
	· 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:** The product may not be released into the environment without control.
- Results of PBT and vPvB assessment
  - · PBT: Not applicable.
  - · vPvB: Not applicable.
- Other adverse effects No further relevant information available.

### 13 Disposal considerations

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





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 ml

(Contd. of page 5)

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	k II of	
MARPOL73/78 and the IBC Code	Not applicable.	
UN "Model Regulation":	Void	

# 15 Regulatory information

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

· 9	Section 355 (extremely hazardous substances):
67-66-3 tri	chloromethane
· S	ection 313 (Specific toxic chemical listings):
67-66-3 tri	chloromethane
·TSC	A (Toxic Substances Control Act):
7647-14-5	sodium chloride
9048-46-8	Albumins, blood serum
	Tris(hydroxymethyl)-aminomethane
9005-64-5	Polysorbate 20
67-66-3	trichloromethane
115-40-2	bromocresol purple
7732-18-5	water, distilled, conductivity or of similar purity
D	acition CE

· Proposition 65

· Chemicals known to cause cancer:
67-66-3 | trichloromethane

(Contd. on page 7)





Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 ml

		(Contd. of page
	· 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 toxici	ity:
67-66-3	trichloromethane	
· C	ancerogenity categories	
	· EPA (Environmental Protection Agency)	
67-66-3	trichloromethane	N
	· TLV (Threshold Limit Value established by ACGI	H)
67-66-3	trichloromethane	A
	· NIOSH-Ca (National Institute for Occupational Sa	afety and Health)
67-66-3	trichloromethane	
· Natio	onal regulations:	
Class	Share in %	

# 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.

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

#### 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 10/27/2020 / -

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

(Contd. on page 8)



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# **Safety Data Sheet** 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/06/2015

Trade name: R7b - Diluent 2, 26 ml

(Contd. of page 7)

ELINCS: European List of Notified Chemical Substances

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

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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

NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flam. Liq. 2: Flammable liquids - Category 2

Acute Tox. 4: Acute toxicity – Category 4 Acute Tox. 2: Acute toxicity – Category 2 Acute Tox. 3: Acute toxicity – Category 3

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

Skin Irrit. 2: Skin corrosion/irritation - Category 2

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

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

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

Carc. 2: Carcinogenicity - Category 2

Repr. 2: Reproductive toxicity - Category 2

STOT RE 1: Specific target organ toxicity (repeated exposure) - Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

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





Printing date 10/27/2020

Reviewed on 07/02/2015

#### 1 Identification

- · Product identifier
  - · Trade name: R9 Chromogen TMB (28 ml)
    - · Article number: 620585
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

# 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 = 1

Reactivity = 0

· HMIS-ratings (scale 0 - 4)

Health = 0

Fire = 1

Reactivity = 0

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



Page 2/7

Data Sheet

# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R9 - Chromogen TMB (28 ml)

(Contd. of page 1)

#### 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: 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:

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

Use fire fighting measures that suit the environment.

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

#### 6 Accidental release measures

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

Absorb liquid components with liquid-binding material.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

USA

(Contd. on page 3)





Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R9 - Chromogen TMB (28 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:

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: Solution
· Color: Light yellow
· Odor: Odorless

• **pH-value:**  $3.55 \pm 0.2$ 

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

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R9 - Chromogen TMB (28 ml)

		(Contd. of page 3)
· Flash point:	102 °C (215.6 °F)	
Danger of explosion:	Product does not present an explosion hazard.	
· Density:	Not determined.	
· Solubility in / Miscibility	with	
Water:	Fully miscible.	
· Other information	No further relevant information available.	

# 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

# 11 Toxicological information

- Information on toxicological effects
  - · Additional toxicological information:

The product 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.

(Contd. on page 5)





Printing date 10/27/2020 Reviewed on 07/02/2015

#### Trade name: R9 - Chromogen TMB (28 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.
  - · 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":	Void

USA

(Contd. on page 6)





Printing date 10/27/2020 Reviewed on 07/02/2015

Trade name: R9 - Chromogen TMB (28 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):

7722-84-1 hydrogen peroxide solution

· Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

54827-17-7 3,3',5,5'-tetramethylbenzidine

7722-84-1 hydrogen peroxide solution

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)

7722-84-1 hydrogen peroxide solution

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

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# **Safety Data Sheet** 29 CFR Part 1910.1200

Reviewed on 07/02/2015 Printing date 10/27/2020

Trade name: R9 - Chromogen TMB (28 ml)

(Contd. of page 6)

#### · 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 10/27/2020 / -

#### · 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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit





Printing date 10/27/2020

Reviewed on 07/03/2015

#### 1 Identification

- · Product identifier
  - · Trade name: R10 1N Stopping solution, 28 ml
    - · Article number: 7360J (USA)
    - · 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

This SDS is listed with CHEMTREC 1800-424-9300 / 1-510-741-1000.

Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT with this product.

### 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:

sulphuric 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 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 = 3

Fire = 0

Reactivity = 0

(Contd. on page 2)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R10 - 1N Stopping solution, 28 ml

(Contd. of page 1)

· HMIS-ratings (scale 0 - 4)

Health = \*3Fire = 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

2.5-10%

Carc. 1A, H350

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

#### 4 First-aid measures

- · Description of first aid measures
  - General information: Immediately remove any clothing soiled by the product.
  - · After inhalation: Supply fresh air and to be sure call for a doctor.
  - · After skin contact: Immediately wash with water and soap and rinse thoroughly.
  - · After eye contact:

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

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

#### 5 Fire-fighting measures

- · Extinguishing media
  - Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

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

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





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R10 - 1N Stopping solution, 28 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:

Use neutralizing agent.

Absorb liquid components with liquid-binding material.

Dispose contaminated material as waste according to item 13.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling:
  - · Precautions for safe handling Follow good laboratory practices.
  - Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities
  - · Storage:
    - · Requirements to be met by storerooms and receptacles: No special requirements.
    - · Information about storage in one common storage facility: Not required.
    - Further information about storage conditions: 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

<ul> <li>Components with</li> </ul>	limit values	that require	monitor	ing at i	the work	place:
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# 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: Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work.

(Contd. on page 4)





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R10 - 1N Stopping solution, 28 ml

(Contd. of page 3)

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: 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.

· Vapor pressure: Not determined.

· **Density:** Not determined.

· Solubility in / Miscibility with

· Water: Fully miscible.

· Solvent content:

· Organic solvents: 0.0 % · Water: 95.2 %

· Other information No further relevant information available.

#### 10 Stability and reactivity

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

No decomposition if used according to specifications.

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

неа





Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R10 - 1N Stopping solution, 28 ml

(Contd. of page 4)

#### 11 Toxicological information

- · Information on toxicological effects
  - · Acute toxicity:
    - · Primary irritant effect:
      - on the skin: Caustic effect on skin and mucous membranes.
      - on the eye: Strong caustic effect.
  - · Additional toxicological information:

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

Corrosive

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: The product may not be released into the environment without control.
- · Results of PBT and vPvB assessment
  - · **PBT:** Not applicable.
  - · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
  - · Recommendation: Must be specially treated adhering to official regulations.

(Contd. on page 6)





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Trade name: R10 - 1N Stopping solution, 28 ml

(Contd. of page 5)

· Uncleaned packagings:

• Recommendation: Disposal must be made according to official regulations.

Transport information		
· UN-Number · DOT, ADR, IMDG, IATA	UN2796	
· UN proper shipping name · DOT, IMDG, IATA · ADR	SULPHURIC ACID 2796 SULPHURIC ACID	
· Transport hazard class(es)		
· DOT		
ST S		
· Class · Label	8 Corrosive substances 8	
· ADR		
· Class · Label	8 (C1) Corrosive substances	
· IMDG, IATA		
<u> </u>		
· Class	8 Corrosive substances	
· Label	8	
Packing group DOT, ADR, IMDG, IATA	II	
· Environmental hazards: · Marine pollutant:	No	
· Special precautions for user · Hazard identification number (Ke · EMS Number:		
· EMS Number: · Segregation groups	F-A,S-B Acids	
Transport in bulk according to Annex I	ll of Not applicable.	

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· 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):

7664-93-9 sulphuric acid

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)

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.

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SDS / FDS Administr.

Bio-Rad

Marnes-la-Coquette, France

(Contd. on page 8)



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# Safety Data Sheet 29 CFR Part 1910.1200

Printing date 10/27/2020 Reviewed on 07/03/2015

Trade name: R10 - 1N Stopping solution, 28 ml

(Contd. of page 7)

#### · Contact:

**Customer Support** 

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

USA

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

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NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Met. Corr.1: Corrosive to metals - Category 1

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

Carc. 1A: Carcinogenicity - Category 1A