

10/17/2007

Kit Components

Product code

Description

171304001	Reagent Kit A for 10x96 Well Multiplex Assay
10008295	

Components:

171304100	Bio-Plex <sup>TM</sup> Assay Buffer
171304200	Bio-Plex <sup>TM</sup> Wash Buffer
171304300	Bio-Plex <sup>TM</sup> Detection Ab Diluent
9703897	Streptavidin-PE (100X)

Printing date 10/17/2007

#### **1** Identification of substance:

- · Product details:
- · Trade name: Bio-Plex<sup>TM</sup> Assay Buffer
- · Catalog or product number: 171304100, 9703892, 9704415
- · Application of the substance / the preparation Laboratory chemicals
- *Manufacturer/Supplier:* Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547
- · Information department: Technical services, customer support.
- Emergency information:

*1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000* 

#### 2 Composition/Information on components:

- · Chemical characterization:
- · CAS No. Description:
- 7732-18-5 water
- Identification number(s):
- EINECS Number: 231-791-2
- · Additional information: For the wording of the listed risk phrases refer to section 16.
- · Chemical characterization
- · Listing of dangerous and non-hazardous components:
- Proprietary Reagent C

#### **3 Hazards identification**

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

#### 4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- · After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.

## **5** Fire fighting measures

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. (Contd. on page 2)

(510)741-1000

Reviewed on 10/08/2007

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Trade name: Bio-Plex<sup>TM</sup> Assay Buffer

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· Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Person-related safety precautions: Not required
- Measures for environmental protection: Dilute with plenty of water.
- Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- · Additional information: No dangerous substances are released.

#### 7 Handling and storage

· Handling

- Information for safe handling:
- No special measures required.

No special precautions are necessary if used correctly.

• Information about protection against explosions and fires: No special measures required.

- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

#### 8 Exposure controls and personal protection

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

- · Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material

*The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.* **Eve protection:** Safety glasses

	·	Eye	protection:	Safety	glasses
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Physical and che		
General Information		
Form:	liquid	
Color:	Colorless	
Odor:	Odorless	

Change in condition Melting point/Melting range: 0°C

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# BIO-RAD

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Trade name: Bio-Plex<sup>TM</sup> Assay Buffer

	(Contd. of page
<b>Boiling point/Boiling range:</b>	100°C
· Flash point:	Not applicable
• Danger of explosion:	Product does not present an explosion hazard.
· Vapor pressure at 20°C:	23 hPa
· Density at 20°C:	1 g/cm <sup>3</sup>
· Solubility in / Miscibility with Water:	Fully miscible
· pH-value at 20°C: · Organic solvents: · Water:	7.4 0.0 % 97.9 %
· Solids content:	2.0 %

## 10 Stability and reactivity

• *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.

- · Dangerous reactions No dangerous reactions known
- · Dangerous products of decomposition: No dangerous decomposition products known

## **11 Toxicological information**

- Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

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.

- The substance is not subject to classification according to the latest version of the EU lists.
- Target organs: Not applicable.

### **12 Ecological information:**

· General notes: Generally not hazardous for water.

### **13 Disposal considerations**

- · Product:
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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Trade name: Bio-Plex<sup>TM</sup> Assay Buffer

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

14 Transport information
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· DOT regulations:

· Hazard class:

- · Land transport ADR/RID (cross-border) · ADR/RID class:
- · Maritime transport IMDG:

· IMDG Class:

• Marine pollutant: No

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

· Transport/Additional information: Not dangerous according to the above specifications.

#### **15 Regulations**

- · SARA (Superfund Amendents and Reauthorization Act of 1986 USA)
- · Section 302/304 (40CFR355.30 / 40CFR355.40):

Substance not listed.

• Section 313 (40CFR372.65):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

7732-18-5 water

- Proprietary Reagent C Proprietary Reagent A
- Proprietary Reagent D

· Cancerogenity categories

· EPA (Environmental Protection Agency)	
Substance is not listed.	
· IARC (International Agency for Research on Cancer)	
Substance is not listed.	
· NTP (National Toxicology Program)	
Substance is not listed.	
· TLV (Threshold Limit Value established by ACGIH)	
Substance is not listed.	
· MAK (German Maximum Workplace Concentration)	
Substance is not listed.	
· NIOSH-Ca (National Institute for Occupational Safety and Health)	
Substance is not listed.	
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Trade name: Bio-Plex<sup>TM</sup> Assay Buffer

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· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

#### · Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals The substance is not subject to classification according to EU lists and other sources of literature known to us. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases:

35 This material and its container must be disposed of in a safe way.

· National regulations

• Water hazard class: Generally not hazardous for water.

### **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 MSDS: Environmental Health and Safety.

· Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 · \* Data compared to the previous version altered.

# Material Safety Data Sheet

Printing date 10/17/2007

### Reviewed on 04/24/2007

(510)741-1000

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### **1** Identification of substance:

- · Product details:
- · Trade name: Bio-Plex<sup>TM</sup> Wash Buffer
- · Catalog or product number: 171304200, 9703893, 9704416
- · Application of the substance / the preparation Laboratory chemicals
- *Manufacturer/Supplier:* Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547
- · Information department: Technical services, customer support.
- Emergency information:

1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000

#### 2 Composition/Information on components:

- · Chemical characterization:
- · CAS No. Description:
- 7732-18-5 water
- Identification number(s):
- EINECS Number: 231-791-2
- · Additional information: For the wording of the listed risk phrases refer to section 16.

#### **3 Hazards identification**

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

#### 4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Induce vomiting and call for medical help.

### 5 Fire fighting measures

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Protective equipment: No special measures required.

### 6 Accidental release measures

- · Person-related safety precautions: Not required
- *Measures for environmental protection:* Dilute with plenty of water.

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Trade name: Bio-Plex<sup>TM</sup> Wash Buffer

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 Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
 Additional information: No dangerous substances are released.

### 7 Handling and storage

· Handling

- · Information for safe handling:
- No special measures required.

No special precautions are necessary if used correctly.

- Information about protection against explosions and fires: No special measures required.
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

#### 8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- $\cdot$  Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection: Safety glasses

General Information		
Form:	liquid	
Color:	Colorless	
Odor:	Odorless	
Change in condition Melting point/Melting ran Boiling point/Boiling rang		
Flash point:	Not applicable	
Danger of explosion:	Product does not present an explosion hazard.	
Vapor pressure at 20°C:	23 hPa	
Density at 20°C:	$1 \text{ g/cm}^3$	

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Trade name: Bio-Plex<sup>TM</sup> Wash Buffer

		(Contd. of page
Solubility in / Miscibility Water:	vith Fully miscible	
pH-value at 20°C:	7.4	
Organic solvents:	0.0 %	
Water:	98.8 %	
Solids content:	1.0 %	

## **10 Stability and reactivity**

· Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- · Dangerous reactions No dangerous reactions known
- · Dangerous products of decomposition: No dangerous decomposition products known

### **11** Toxicological information

• Acute toxicity:

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

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.

The substance is not subject to classification according to the latest version of the EU lists.

· Target organs: Not applicable.

#### **12 Ecological information:**

· General notes: Generally not hazardous for water.

#### **13 Disposal considerations**

- · Product:
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

## **14** Transport information

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border)
- · ADR/RID class:

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# Material Safety Data Sheet

Trade name: Bio-Plex<sup>TM</sup> Wash Buffer

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· Maritime transport IMDG:

· IMDG Class:

• Marine pollutant: No

• Air transport ICAO-TI and IATA-DGR: • ICAO/IATA Class: -

· Transport/Additional information: Not dangerous according to the above specifications.

### **15 Regulations**

· SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)

· Section 302/304 (40CFR355.30 / 40CFR355.40):

Substance not listed.

• Section 313 (40CFR372.65):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

7732-18-5 water

Proprietary Reagent A

Proprietary Reagent D

· Cancerogenity categories

· EPA (Environmental Protection Agency)

Substance is not listed.

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

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

Substance is not listed.

· OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

 $\cdot$  Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals The substance is not subject to classification according to EU lists and other sources of literature known to us. The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases:

35 This material and its container must be disposed of in a safe way.

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Trade name: Bio-Plex<sup>TM</sup> Wash Buffer

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· National regulations

• Water hazard class: Generally not hazardous for water.

#### **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 MSDS: Environmental Health and Safety.

· Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

*Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000* • \* *Data compared to the previous version altered.* 

Printing date 10/17/2007

Reviewed on 10/08/2007

(510)741-1000

USA

### **1** Identification of substance:

- · Product details:
- · Trade name: Bio-Plex<sup>TM</sup> Detection Ab Diluent
- · Catalog or product number: 171304300, 9703894, 9704417
- · Application of the substance / the preparation Laboratory chemicals
- *Manufacturer/Supplier:* Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547
- · Information department: Technical services, customer support.
- Emergency information:

*1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000* 

#### 2 Composition/Information on components:

- · Chemical characterization
- Description: Mixture of the substances listed below with non-hazardous additions.

· Listing of dangerous	· Listing of dangerous and non-hazardous components:		
CAS: 7732-18-5	water	50-100%	
EINECS: 231-791-2			
RTECS: ZC 0110000			
	Proprietary Reagent W	2.5-5%	
A 1 1 · · · · · · · · · · · · · · · · ·	E - the supervise of the listed with a house of the terretion 15	·	

• Additional information For the wording of the listed risk phrases refer to section 15.

#### **3 Hazards identification**

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment

The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

· Classification system

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

#### 4 First aid measures

- · General information No special measures required.
- $\cdot \textit{After inhalation}$  Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- $\cdot \textit{After eye contact Rinse opened eye for several minutes under running water.}$
- After swallowing Induce vomiting and call for medical help.

### 5 Fire fighting measures

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. (Contd. on page 2)

Trade name: Bio-Plex<sup>TM</sup> Detection Ab Diluent

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· Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Person-related safety precautions: Not required
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- Dispose contaminated material as waste according to item 13.
- · Additional information: No dangerous substances are released.

#### 7 Handling and storage

- · Handling
- $\cdot$  Information for safe handling:
- No special measures required.
- No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: No special measures required.
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.

#### 8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- · Components with limit values that require monitoring at the workplace:
- *The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. Additional information:* The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- · Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- · Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Safety glasses

General Information	!	
Form:	liquid	
Color:	Ĉlear	
Odor:	Odorless	

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Reviewed on 10/08/2007

Trade name: Bio-Plex<sup>TM</sup> Detection Ab Diluent

	(Contd. of page 2)
Boiling point/Boiling range:	100°C
· Flash point:	Not applicable
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
• Vapor pressure at 20°C:	23 hPa
· Density at 20°C:	1 g/cm <sup>3</sup>
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix
· pH-value at 20°C:	7.4
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> </ul>	0.0 % 93.8 %
· Solids content:	1.3 %

### **10 Stability and reactivity**

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

· Dangerous reactions No dangerous reactions known

· Dangerous products of decomposition: No dangerous decomposition products known

### **11 Toxicological information**

· Acute toxicity:

- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.

· Sensitization: No sensitizing effects known.

· Additional toxicological information:

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

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

· Target organs: Not applicable.

#### **12 Ecological information:**

#### · General notes:

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

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Trade name: Bio-Plex<sup>TM</sup> Detection Ab Diluent

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#### **13 Disposal considerations**

- · Product:
- · Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

#### **14 Transport information**

- · DOT regulations:
- · Hazard class:
- · Land transport ADR/RID (cross-border) · ADR/RID class: -
- · Maritime transport IMDG:
- · IMDG Class:
- Marine pollutant: No
- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -
- · Transport/Additional information: Not dangerous according to the above specifications.

#### **15 Regulations**

· SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)

· Section 302/304 (40CFR355.30 / 40CFR355.40):
None of the ingredients is listed.
· Section 313 (40CFR372.65):
None of the ingredients is listed.
· TSCA (Toxic Substances Control Act):
7732-18-5 water
Proprietary Reagent A
Proprietary Reagent C
Proprietary Reagent D

· Cancerogenity categories

· EPA (Environmental Protection Agency)

None of the ingredients is listed.

· IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

· NTP (National Toxicology Program)

None of the ingredients is listed.

· TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

· MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

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Trade name: Bio-Plex<sup>TM</sup> Detection Ab Diluent

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

None of the ingredients is listed.

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

· Markings according to EU guidelines: Observe the general safety regulations when handling chemicals The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases: 35 This material and its container must be disposed of in a safe way.

· National regulations

· Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

#### **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 MSDS: Environmental Health and Safety. · Contact:
- Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000  $\cdot$  \* Data compared to the previous version altered.



# Material Safety Data Sheet

Printing date 10/17/2007

Reviewed on 07/18/2007

### **1** Identification of substance:

- · Product details:
- · Trade name: <u>Streptavidin-PE (100X)</u>
- Catalog or product number: 9703897, 9704418, 9703887, 171307020 • Application of the substance / the preparation Laboratory chemicals
- *Manufacturer/Supplier:* Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547

(510)741-1000

• Information department: Technical services, customer support. • Emergency information:

1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000

#### 2 Composition/Information on components:

- · Chemical characterization:
- · CAS No. Description:
- 7732-18-5 water
- Identification number(s):
- EINECS Number: 231-791-2
- · Additional information: For the wording of the listed risk phrases refer to section 16.

#### 3 Hazards identification

- · Emergency overview: not applicable
- · Information pertaining to particular dangers for man and environment not applicable
- · Classification system

The classification was made according to OSHA 29CFR 1910.1200 and 1910.1030, and is expanded upon from company and/or literature information.

#### 4 First aid measures

- · General information No special measures required.
- · After inhalation Supply fresh air; consult doctor in case of complaints.
- After skin contact Generally the product does not irritate the skin.
- After eye contact Rinse opened eye for several minutes under running water.
- After swallowing Induce vomiting and call for medical help.

### 5 Fire fighting measures

• Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • Protective equipment: No special measures required.

### 6 Accidental release measures

- · Person-related safety precautions: Not required
- Measures for environmental protection: No special measures required.

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Printing date 10/17/2007

Reviewed on 07/18/2007

Trade name: Streptavidin-PE (100X)

(Contd. of page 1)

 Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
 Additional information: No dangerous substances are released.

### 7 Handling and storage

· Handling

- · Information for safe handling:
- No special measures required.

No special precautions are necessary if used correctly.

- Information about protection against explosions and fires: No special measures required.
- · Storage
- · Requirements to be met by storerooms and receptacles: According to product specification
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.

#### 8 Exposure controls and personal protection

- Additional information about design of technical systems: No further data; see item 7.
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Personal protective equipment
- · General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed.
- Breathing equipment: Not required.
- · Protection of hands: Protective gloves.
- · Material of gloves Synthetic gloves
- $\cdot$  Penetration time of glove material
- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection: Safety glasses

· General Information			
Form:	liquid		
Color:	Colorless		
Odor:	Odorless		
Change in condition Melting point/Melting ran Boiling point/Boiling rang			
Flash point:	Not applicable		
Danger of explosion:	Product does not present an explosion hazard.		
Vapor pressure at 20°C:	23 hPa		
Density at 20°C:	1 g/cm <sup>3</sup>		

# Material Safety Data Sheet

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Trade name: Streptavidin-PE (100X)

Solubility in / Miscibility w	th	
Water:	Not miscible or difficult to mix	
pH-value at 20°C:	7.4	
Organic solvents:	0.0 %	
· Water:	98.9 %	

#### **10 Stability and reactivity**

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Dangerous reactions No dangerous reactions known
- · Dangerous products of decomposition: No dangerous decomposition products known

#### **11 Toxicological information**

- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- Sensitization: No sensitizing effects known.
- Additional toxicological information:

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.

- The substance is not subject to classification according to the latest version of the EU lists.
- *Target organs:* Not applicable.

#### **13 Disposal considerations**

- · Product:
- Recommendation Hand over to hazardous waste disposers.
- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.

## **14 Transport information**

· DOT regulations:

· Hazard class:

- · Land transport ADR/RID (cross-border)
- · ADR/RID class: -
- · Maritime transport IMDG:
- · IMDG Class:

• Marine pollutant: No

- · Air transport ICAO-TI and IATA-DGR:
- · ICAO/IATA Class: -

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· Transport/Additional information: Not dangerous according to the above specifications.

### **15 Regulations**

· SARA (Superfund Amendents and Reauthorization Act of 1986 - USA)

• Section 302/304 (40CFR355.30 / 40CFR355.40):

Substance not listed.

• Section 313 (40CFR372.65):

Substance is not listed.

· TSCA (Toxic Substances Control Act):

7732-18-5 water

- Proprietary Reagent A Proprietary Reagent C Proprietary Reagent D
- · Cancerogenity categories
- · EPA (Environmental Protection Agency)
- Substance is not listed.

· IARC (International Agency for Research on Cancer)

- Substance is not listed.
- · NTP (National Toxicology Program)

Substance is not listed.

· TLV (Threshold Limit Value established by ACGIH)

Substance is not listed.

· MAK (German Maximum Workplace Concentration)

Substance is not listed.

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

Substance is not listed.

• **OSHA-Ca** (Occupational Safety & Health Administration) Substance is not listed.

• Markings according to EU guidelines:

Observe the general safety regulations when handling chemicals The substance is not subject to classification according to EU lists and other sources of literature known to us.

The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (GefStoffV).

· Safety phrases:

35 This material and its container must be disposed of in a safe way.

### **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 MSDS: Environmental Health and Safety.

BIO <del>R</del>AD

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USA

· Contact:

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Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000  $\cdot$  \* Data compared to the previous version altered.