

04/05/2010

Product code Description

**Kit Components** 

192-8000	Micro A1c Kit	
1/2 0000		
	Obsolete Kit	
103 9001		
192-8001		

Components:

192-8011	Micro A1c Calibrator I Obsolete Product
192-8012	Micro A1c Calibrator II, III Obsolete Product
192-8014	Micro A1c 1st Elution / Developing Reagent Obsolete Product
192-8015	Micro A1c 2nd Elution / Developing Reagent Obsolete Product
192-8016	Micro A1c Hemolysis Reagent Obsolete Product
195-8018	Micro A1c Columns Obsolete Product

Reviewed on 10/21/2009

1(510)724-7000

### 1 Identification of substance:

- · Product details:
- · Trade name: Micro A1c Calibrator I
- · Catalog or product number: 192-8011
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 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.

### 2 Composition/Information on components:

#### · Chemical characterization

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

### · Listing of dangerous and non-hazardous components:

J			
57-50-1	sucrose, pure		50-100%
6381-92-6	Ethylenediaminetetraacetic acid disodium salt dihydrate	Xn, Xi; R 22-36/37/38	5-10%
7647-14-5	sodium chloride	Xi; R 36/38	2.5-5%
	Human Blood - Lyophilized		0.1-1.0%
32986-56-4	tobramycin	T; R 61-20/21/22	0.1-1.0%
1405-41-0	Gentamicin Sulfate	T; R 61-20/21/22	0.1-1.0%

#### · Additional information

Contains human sourced and/or potentially infectious components. 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.

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

### • NFPA ratings (scale 0-4)

Health = 0Fire = 0 Reactivity = 0

### 4 First aid measures

· General information No special measures required.

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- · 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: Handle as potentially infectious.
- · Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting: Disinfectant
- · 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:

57-50-1 sucrose, pure	
PEL (United States)	15* 5** mg/m³
	*total dust **respirable fraction
REL (United States)	10* 5** mg/m³
	*total dust **respirable fraction
TLV (United States)	10 mg/m <sup>3</sup>
· Additional information: The lists that were valid during the creation were used as basis.	

#### · Personal protective equipment

# General protective and hygienic measures

Follow the usual biosafety practices for handling potentially infectious materials.

· Protection of hands: Protective gloves.

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### Trade name: Micro A1c Calibrator I

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### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. 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:	Solid.
Color:	Light red
Odor:	Light
Change in condition Melting point/Melting range Boiling point/Boiling range	e: undetermined : undetermined
Flash point:	Not applicable
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Density:	Not determined
Solubility in / Miscibility with Water:	Fully miscible
Solvent content: Organic solvents:	0.0 %
Solids content:	100.0 %

### 10 Stability and reactivity

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

· Materials to be avoided:

· Dangerous reactions No dangerous reactions known

· Dangerous products of decomposition: No dangerous decomposition products known

### **11 Toxicological information**

· Acute toxicity:

· LD/LC50 values for hazardous components per OSHA criteria:

6381-92-6 Ethylenediaminetetraacetic acid disodium salt dihydrate

Oral LD50 2000 mg/kg (rat)

Primary irritant effect:

· on the skin: No irritant effect.

· on the eye: No irritant effect.

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# Material Safety Data Sheet

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### Trade name: Micro A1c Calibrator I

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· 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:

· Additional ecological information:

· General notes:

Water hazard class 2 (Self-assessment): hazardous for water. Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

### 13 Disposal considerations

· Product:

· Recommendation

Can be disposed of with household garbage with prior chemical-physical or biological treatment following consultation with the waste disposal facility operator and the pertinent authorities and adhering to the necessary technical regulations.

- · 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:
- · 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.

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### Material Safety Data Sheet

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Trade name: Micro A1c Calibrator I

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	(Contd. of page
· Section 3	13 (40CFR372.65):
	e ingredients is listed.
· TSCA (Tox	kic Substances Control Act):
· · ·	sucrose, pure
	sodium chloride
· California	Proposition 65:
· Developm	ental Toxicity
32986-56-4	1 tobramycin
1405-41-0	0 Gentamicin Sulfate
· Carcinoge	nic categories
· IARC (Inte	rnational Agency for Research on Cancer)
None of the	e ingredients is listed.
· NTP (Natio	onal Toxicology Program)
None of the	e ingredients is listed.
· OSHA-Ca	(Occupational Safety & Health Administration)
None of the	e ingredients is listed.
Observe th	<b>according to EU guidelines:</b> e general safety regulations when handling chemicals ct is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materia ).

· National regulations

· Water hazard class: Water hazard class 2 (Self-assessment): 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.

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Reviewed on 10/21/2009

1(510)724-7000

### 1 Identification of substance:

- · Product details:
- · Trade name: Micro A1c Calibrator II, III
- · Catalog or product number: 192-8012, 192-8013
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 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.

### 2 Composition/Information on components:

#### · Chemical characterization

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

### · Listing of dangerous and non-hazardous components:

v	, , , , , , , , , , , , , , , , , , ,		
56-40-6	glycine	Xn, Xi; R 22-36	50-100%
57-50-1	sucrose, pure		35-50%
6381-92-6	Ethylenediaminetetraacetic acid disodium salt dihydrate	Xn, Xi; R 22-36/37/38	1.0-2.5%
7647-14-5	sodium chloride	Xi; R 36/38	0.1-1.0%

· Additional information

Contains human sourced and/or potentially infectious components. For the wording of the listed risk phrases refer to section 15.

### **3 Hazards identification**

· Emergency overview:

Irritant to eyes.

Xn Harmful

· Routes of exposure: Ingestion

· Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 22 Harmful if swallowed.

R 36 Irritating to eyes.

Classification system

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

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

• **NFPA ratings (scale 0-4)** Health = 2 Fire = 0 Reactivity = 0

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### Material Safety Data Sheet

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Trade name: Micro A1c Calibrator II, III

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### 4 First aid measures

· General information

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

- · After inhalation Supply fresh air; 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. If symptoms persist, consult a doctor.
- · After swallowing Immediately call a doctor.

### 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: Handle as potentially infectious.
- Measures for environmental protection: Do not allow to enter sewers/ surface or ground water.
- · Measures for cleaning/collecting: Dispose contaminated material as waste according to item 13.

### 7 Handling and storage

- · Handling
- · Information for safe handling: 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: Keep receptacle tightly sealed.

### 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:

#### 57-50-1 sucrose, pure

PEL (United States) 15\* 5\*\* mg/m<sup>3</sup> \*total dust \*\*respirable fraction REL (United States) 10\* 5\*\* mg/m<sup>3</sup> \*total dust \*\*respirable fraction

TLV (United States) 10 mg/m<sup>3</sup>

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

- · Personal protective equipment
- · General protective and hygienic measures

Follow the usual biosafety practices for handling potentially infectious materials.

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#### Trade name: Micro A1c Calibrator II, III

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Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.

· Protection of hands: Protective gloves.

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. 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

Tightly sealed goggles.

### 9 Physical and chemical properties:

· General Information	
Form: Color: Odor:	Solid. Light red Light
<ul> <li>Change in condition Melting point/Melting ra Boiling point/Boiling ra</li> </ul>	
· Flash point:	Not applicable
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Density:	Not determined
<ul> <li>Solubility in / Miscibility v Water:</li> </ul>	with Insoluble
<ul> <li>Solvent content: Organic solvents:</li> </ul>	0.0 %
Solids content:	100.0 %

### 10 Stability and reactivity

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

- Materials to be avoided:
- · Dangerous reactions No dangerous reactions known
- · Dangerous products of decomposition: No dangerous decomposition products known

(Contd. on page 4)

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Trade name: Micro A1c Calibrator II, III

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### **11 Toxicological information**

- · Acute toxicity:
- · LD/LC50 values for hazardous components per OSHA criteria:

### 56-40-6 glycine

Oral LD50 7930 mg/kg (rat) Dermal LD50 5200 mg/kg (rat)

- · Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- · on the eye: Irritant effect.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

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

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

Harmful

- Irritant
- · Target organs: Eye.

### **12 Ecological information:**

- · Additional ecological information:
- · General notes:

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

### **13 Disposal considerations**

- · Product:
- · Recommendation

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

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### Material Safety Data Sheet

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Trade name: Micro A1c Calibrator II, III

· Air transport ICAO-TI and IATA-DGR:

· ICAO/IATA Class: -

### 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):

56-40-6 glycine

57-50-1 sucrose, pure

7647-14-5 sodium chloride

- · California Proposition 65:
- · Developmental Toxicity
- 32986-56-4 tobramycin
  - 1405-41-0 Gentamicin Sulfate

### · 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.

### • Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

- **Code letter and hazard designation of product:** Xn Harmful
- Hazard-determining components of labelling: glycine
- Risk phrases:
  22 Harmful if swallowed.
  36 Irritating to eyes.

· Safety phrases:

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36 Wear suitable protective clothing.
60 This material and its container must be disposed of as hazardous waste.

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Trade name: Micro A1c Calibrator II, III

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· 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 · \* **Data compared to the previous version altered.** 

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# Material Safety Data Sheet

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Printing date 04/05/2010

Reviewed on 10/21/2009

1(510)724-7000

### 1 Identification of substance:

- · Product details:
- · Trade name: Micro A1c 1st Elution / Developing Reagent
- · Catalog or product number: 192-8014
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 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.

### 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 15.
- · Chemical characterization
- · Listing of dangerous and non-hazardous components:

boric acid

Repr. Cat. 2; T; R 60-61 0.1-1.0%

### **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.

• **NFPA ratings (scale 0-4)** Health = 0 Fire = 0

Reactivity = 0

### 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.

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Trade name: Micro A1c 1st Elution / Developing Reagent

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### 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.
- Measures for cleaning/collecting:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 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: boric acid TLV (United States) Short-term value: 6\* mg/m<sup>3</sup> Long-term value: 2\* mg/m<sup>3</sup> \*as inhalable fraction 26628-22-8 sodium azide REL (United States) Short-term value: C 0.3\*\* mg/m<sup>3</sup>, C 0.1\* ppm \*as HN3 vapor; \*\*as NaN3; Skin TLV (United States) Short-term value: C 0.29\*\* mg/m3, C 0.11\* ppm \*as HN3 vapor \*\*as NaN3 7664-38-2 phosphoric acid PEL (United States) 1 mg/m<sup>3</sup> REL (United States) Short-term value: 3 mg/m<sup>3</sup> Long-term value: 1 mg/m<sup>3</sup> TLV (United States) Short-term value: 3 mg/m<sup>3</sup> Long-term value: 1 mg/m<sup>3</sup> · Additional information: The lists that were valid during the creation were used as basis. (Contd. on page 3)



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Trade name: Micro A1c 1st Elution / Developing Reagent

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#### · 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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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:	Colorless
Odor:	Odorless
Change in condition	
Melting point/Melting range	
Boiling point/Boiling range.	: 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/cm³
Solubility in / Miscibility with	
Water:	Fully miscible
pH-value at 20°C:	7
• Organic solvents:	0.0 %
Water:	99.5 %

### 10 Stability and reactivity

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

- Materials to be avoided:
- · Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

· Dangerous products of decomposition: No dangerous decomposition products known

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### 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:**

· Additional ecological information:

· General notes: Generally not hazardous for water.

### 13 Disposal considerations

- · Product:
- · Recommendation

On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · 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: -
- · 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.

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Trade name: Micro A1c 1st Elution / Developing Reagent

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### 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

7558-79-4 disodium hydrogenorthophosphate boric acid

26628-22-8 sodium azide

· Carcinogenic categories

### · IARC (International Agency for Research on Cancer)

Substance is not listed.

NTP (National Toxicology Program)

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).

### · 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.

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

<sup>·</sup> Contact:

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

# Material Safety Data Sheet

Printing date 04/05/2010

Reviewed on 10/21/2009

### 1 Identification of substance:

- · Product details:
- · Trade name: Micro A1c 2nd Elution / Developing Reagent
- · Catalog or product number: 192-8015
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 Alfred Nobel Drive Hercules, California 94547

1(510)724-7000

- 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.

### 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 15.

### **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.

· NFPA ratings (scale 0-4)

Health = 0Fire = 0 Reactivity = 0

### 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.

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Trade name: Micro A1c 2nd Elution / Developing Reagent

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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).
- · 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:

### 26628-22-8 sodium azide

REL (United States)Short-term value: C 0.3\*\* mg/m³, C 0.1\* ppm<br/>\*as HN3 vapor; \*\*as NaN3; SkinTLV (United States)Short-term value: C 0.29\*\* mg/m³, C 0.11\* ppm<br/>\*as HN3 vapor \*\*as NaN3

· 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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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

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Trade name: Micro A1c 2nd Elution / Developing Reagent

General Information	
Form:	liquid
Color:	Colorless
Odor:	Odorless
Change in condition	
Melting point/Melting rang	
Boiling point/Boiling rang	<i>ie:</i> 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/cm³
Solubility in / Miscibility with	h
Water:	Fully miscible
pH-value at 20°C:	6.7
, Organic solvents:	0.0 %
Water:	99.1 %

### 10 Stability and reactivity

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

Materials to be avoided:

· Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

· 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.

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Trade name: Micro A1c 2nd Elution / Developing Reagent

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### **12 Ecological information:**

- · Additional ecological information:
- · General notes: Generally not hazardous for water.

### **13 Disposal considerations**

- · Product:
- · Recommendation

On the basis of the necessary technical regulations and after consultation with the disposal agent and the relevant authorities, can be disposed of with domestic waste or incinerated with domestic waste. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · 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:
- · 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

7558-79-4 disodium hydrogenorthophosphate

26628-22-8 sodium azide

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# Material Safety Data Sheet

Trade name: Micro A1c 2nd Elution / Developing Reagent

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### Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

#### · NTP (National Toxicology Program)

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).

· 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 04/05/2010

Reviewed on 10/21/2009

1(510)724-7000

### 1 Identification of substance:

- · Product details:
- · Trade name: Micro A1c Hemolysis Reagent
- · Catalog or product number: 192-8016
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 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.

### 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 15.
- · Chemical characterization
- · Listing of dangerous and non-hazardous components:

boric acid

Repr. Cat. 2; T; R 60-61 2.5-5%

### **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.

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Trade name: Micro A1c Hemolysis Reagent

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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.
- 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).
- · 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:

#### boric acid

Short-term value: NIC-6 I ppm
Long-term value: NIC-2 I ppm
NIC-A4

### 26628-22-8 sodium azide

REL (United States)	Short-term value: C 0.3** mg/m³, C 0.1* ppm
TLV (United States)	*as HN3 vapor; **as NaN3 Short-term value: C 0.29** mg/m³, C 0.11* ppm *as HN3 vapor; **as NaN3

· 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.

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Trade name: Micro A1c Hemolysis Reagent

Reviewed on 10/21/2009

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· Eye protection: Safety glasses

General Information	
Form:	liquid
Color:	Colorless
Odor:	Odorless
Change in condition	
Melting point/Melting range:	
Boiling point/Boiling range:	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:	5.7
Organic solvents:	0.0 %
Water:	95.0 %

### 10 Stability and reactivity

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

· Materials to be avoided:

· Dangerous reactions

This product contains sodium azide. Sodium azide can react with copper, brass, lead, and solder in piping systems to form explosive compounds of lead azide and copper azide.

· Dangerous products of decomposition: No dangerous decomposition products known

### 11 Toxicological information

· Acute toxicity:

· LD/LC50 values for hazardous components per OSHA criteria:

### boric acid

Oral LD50 2660 mg/kg (rat)

- · 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.

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Printing date 04/05/2010

Trade name: Micro A1c Hemolysis Reagent

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

### 12 Ecological information:

### · Additional ecological information:

· General notes:

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

### **13 Disposal considerations**

#### · Product:

#### · Recommendation

Hand over to hazardous waste disposers. Flush pipes with water frequently if discarding solutions containing sodium azide into metal piping systems.

- · 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:

- · 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):

Substance is listed.

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# Material Safety Data Sheet

Trade name: Micro A1c Hemolysis Reagent

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#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

#### · NTP (National Toxicology Program)

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).

· 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 · \* Data compared to the previous version altered.

Printing date 04/05/2010

### 1 Identification of substance:

- · Product details:
- · Trade name: Micro A1c Columns
- · Catalog or product number: 195-8018, 195-8019
- · Application of the substance / the preparation In-vitro laboratory reagent or component
- Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 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.

### 2 Composition/Information on components:

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

$\cdot$ Listing of d	angerous and non-hazardous components:		1
81133-22-4	Acrylic acid-co-divinylbenzene resin	50-100%	1
7732-18-5	water	35-50%	

• 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 has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- R 16 Explosive when mixed with oxidizing substances.
- · Classification system

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

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

· NFPA ratings (scale 0-4)

 $Health = 0 \\ Fire = 0$ 

Reactivity = 0

### 4 First aid measures

- · 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.

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1(510)724-7000

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Trade name: Micro A1c Columns

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### 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: 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).

### 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: 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 Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- Protection of hands: Protective gloves.
- · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. 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

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### Material Safety Data Sheet

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Trade name: Micro A1c Columns

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General Information	
Form:	Suspension
Color:	Whitish
Odor:	Odorless
Change in condition	
Melting point/Melting rang	
Boiling point/Boiling rang	ie: 100°C
Flash point:	Not applicable
Auto igniting:	Product is not selfigniting.
Danger of explosion:	Explosive when mixed with oxidizing substances.
Vapor pressure at 20°C:	23 hPa
Density:	Not determined
Solubility in / Miscibility wit Water:	h Not miscible or difficult to mix
Solvent content:	
Organic solvents:	0.0 %
Water:	49.0 %
Solids content:	51.0 %

### 10 Stability and reactivity

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

· Materials to be avoided:

· Dangerous reactions Reacts with strong oxidizing agents

· 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.

### **12 Ecological information:**

- · Additional ecological information:
- · General notes:

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

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Reviewed on 10/21/2009

Trade name: Micro A1c Columns

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Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

### **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: -

### **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
- · 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.
- · Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

### · Risk phrases:

16 Explosive when mixed with oxidizing substances.

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Trade name: Micro A1c Columns

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· 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 · \* **Data compared to the previous version altered.**