

Printing date 09/29/2011 Reviewed on 09/29/2011

### 1 Identification of the substance/mixture and of the company/undertaking

- · Product identifier
- · Trade name: UNO® S Polishing Column
- · Catalog or product number: 7200029
- · Application of the substance / the preparation Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · 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 telephone number:

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 ingredients

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

· Listing of dangerous and non-hazardous components:			
	1-Propanesulfonic acid, 2-methyl-2-[(1-oxo-2-propenyl)amino]-, polymer with 1,4-bis(1-oxo-2-propenyl)piperazine and 2-methyl-2-propenamide	50-100%	
7732-18-5	water	20-35%	
64-17-5	ethanol F R11	5-10%	

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

### 3 Hazards identification

- · Classification of the substance or mixture
- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void
- Information concerning particular hazards for human 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.

- · Label elements
- · Labelling 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).

(Contd. on page 2)



Printing date 09/29/2011 Reviewed on 09/29/2011

Trade name: UNO® S Polishing Column

(Contd. of page 1)

· Safety phrases:

60 This material and its container must be disposed of as hazardous waste.

#### 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 Firefighting measures

- · Suitable extinguishing agents
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Protective equipment: No special measures required.

### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Wear protective equipment (See section 8). Keep unprotected persons away.
- · Environmental precautions: No special measures required.
- · 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

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.
- · 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.

(Contd. on page 3)



Printing date 09/29/2011 Reviewed on 09/29/2011

Trade name: UNO® S Polishing Column

(Contd. of page 2)

· Components with limit values that require monitoring at the workplace:

#### 64-17-5 ethanol

PEL () 1900 mg/m³, 1000 ppm REL () 1900 mg/m³, 1000 ppm

TLV () 1880 mg/m³, 1000 ppm

- · 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.
- · 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

### 9 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: 100°C

· Flash point: > 55°C

Ignition temperature: 425°C

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

· Danger of explosion: Product does not present an explosion hazard.

· Vapor pressure at 20°C: 23 hPa

· **Density:** Not determined

· Solubility in / Miscibility with

Water: Insoluble

Solvent content:

Organic solvents: 8.0 % Water: 32.0 %
Solids content: 60.0 %

• Other information No further relevant information available.

#### 10 Stability and reactivity

- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Incompatible materials: No further relevant information available.

(Contd. on page 4)



Printing date 09/29/2011 Reviewed on 09/29/2011

Trade name: UNO® S Polishing Column

· Hazardous decomposition products: No dangerous decomposition products known

(Contd. of page 3)

### 11 Toxicological information

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

#### 64-17-5 ethanol

 Oral
 LD50
 7060 mg/kg (rat)

 Inhalative
 LC50/4 h
 20000 mg/l (rat)

- · 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

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

### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation Hand over to hazardous waste disposers.
- · 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 5)



Printing date 09/29/2011 Reviewed on 09/29/2011

Trade name: UNO® S Polishing Column

64-17-5 ethanol

None of the ingredients is listed.

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

(Contd. of page 4) · Transport hazard class(es) · DOT, ADR, ADN, IMDG, IATA · Class Void · Packing group · DOT, ADR, IMDG, IATA Void · Environmental hazards: · Marine pollutant: No · Special precautions for user Not applicable. · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable. . Transport/Additional information: Not dangerous according to the above specifications

· Transport/Additional Information:	Not dangerous according to the above specifications.
15 Regulatory information	
· SARA (Superfund Amendents and Reauthorize	ation Act of 1986 - USA)
Section 302/304 (40CFR355.30 / 40CFR355.40	i):
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	
64-17-5 ethanol	
California Proposition 65:	
Developmental Toxicity	
64-17-5 ethanol	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
None of the ingredients is listed.	
· IARC (International Agency for Research on C	ancer)
None of the ingredients is listed.	
· NTP (National Toxicology Program)	
None of the ingredients is listed.	
· TLV (Threshold Limit Value established by AC	GIH)
64-17-5 ethanol	A4
MAK (German Maximum Workplace Concentra	ation)
_	

5



Printing date 09/29/2011 Reviewed on 09/29/2011

Trade name: UNO® S Polishing Column

(Contd. of page 5)

· OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

- · National regulations
- · Technical instructions (air):

Class	Share in %
Water	32.0
III	8.0

· 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.

LICA