Safety Data Sheet acc. to OSHA HCS

Printing date 06/03/2015 Reviewed on 05/17/2015 **1** Identification · Product identifier · Trade name: Elution Buffer · Catalog or product number: 532-6093, 532-6080, 532-6087 · Application of the substance / the mixture In-vitro laboratory reagent or component · Details of the supplier of the safety data sheet · Manufacturer/Supplier: Bio-Rad Laboratories, Diagnostic Group 4000 Alfred Nobel Drive Hercules, California 94547 1(510)724-7000 · Information department: Technical services, customer support TechsupportUSSD@bio-rad.com Emergency telephone number: 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 ingredients · Chemical characterization: Substances · CAS No. Description: 7732-18-5 water · Identification number(s): · EC number: 231-791-2 · Chemical characterization: Mixtures · Description: Mixture of the substances listed below with non-hazardous additions. · Listing of dangerous and non-hazardous components: 26628-22-8 sodium azide 0.01-0.1% · Additional information

For the wording of the listed risk phrases refer to section 15. Contains added constituents of animal origin.

### 3 Hazard(s) identification

• Classification of the substance or mixture The product is not classified according to the Globally Harmonized System (GHS).

· Label elements

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Emergency overview:
- · Routes of exposure: Ingestion

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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 Immediately wash with water and soap and rinse thoroughly.
- · After eye contact Rinse opened eye for several minutes under running water.
- · After swallowing Immediately call a doctor.

#### 5 Fire-fighting 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 clothing.
- · Environmental precautions: Dilute with plenty of water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- Reference to other sections See Section 7 for information on safe handling
  - See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling
- Precautions for safe handling 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.

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· Flammability (solid, gaseous)

· Ignition temperature:

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Components with limit values that	t require monitoring at the workplace:
26628-22-8 sodium azide	
REL (United States) Short-term values *as HN3 vapor	ue: C 0.3** mg/m³, C 0.1* ppm ;; **as NaN3; Skin
TLV (United States) Short-term value *as HN3 vapor	
<b>Personal protective equipment</b> <b>General protective and hygienic n</b> The usual precautionary measures f Wash hands before breaks and at th <b>Breathing equipment:</b> Not required	or handling chemicals should be followed. ne end of work.
Protection of hands: Protective glo Material of gloves Synthetic gloves Penetration time of glove material	
	be found out by the manufacturer of the protective gloves and has to be observed.
Physical and chemical prope	
Eye protection: Safety glasses Physical and chemical prope General Information Appearance: Form: Color:	erties Liquid Colorless
Eye protection: Safety glasses Physical and chemical prope General Information Appearance: Form: Color: Odor:	erties Liquid
Eye protection: Safety glasses Physical and chemical prope General Information Appearance: Form: Color: Odor: Odour threshold:	erties Liquid Colorless Odorless
Eye protection: Safety glasses Physical and chemical prope General Information Appearance: Form: Color: Odor:	erties Liquid Colorless Odorless Not determined.

Decomposition temperature:	Not determined.
· Auto igniting:	Product is not selfigniting.
· Danger of explosion:	Product does not present an explosion hazard.
· Explosion limits: Lower: Upper:	Not determined. Not determined.
· Vapor pressure at 20 °C:	23 hPa
· Density: · Relative density	Not determined Not determined.
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Not applicable.

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<ul> <li>Vapour density</li> <li>Evaporation rate</li> </ul>	Not determined. Not determined.	
<ul> <li>Solubility in / Miscibility with Water:</li> </ul>	Fully miscible	
· Partition coefficient (n-octanol/w	ater): Not determined.	
<ul> <li>Viscosity: dynamic: kinematic:</li> </ul>	Not determined. Not determined.	
<ul> <li>Solvent content:</li> <li>Organic solvents:</li> <li>Water:</li> <li>Other information</li> </ul>	0.0 % 98.1 % No further relevant information available.	

#### 10 Stability and reactivity

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

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.

· Hazardous decomposition products: 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 shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version: Harmful

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

   7664-93-9
   sulphuric acid
   1

   · NTP (National Toxicology Program)
   7664-93-9
   sulphuric acid

   7664-93-9
   sulphuric acid
   K

   · OSHA-Ca (Occupational Safety & Health Administration)
   K

   None of the ingredients is listed.
   K

#### **12 Ecological information**

· Aquatic toxicity: No further relevant information available.

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- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Dispose of waste in accordance to applicable national, regional, or local regulations. 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 · UN-Number · DOT, ADR, ADN, IMDG, IATA Void · UN proper shipping name · DOT, ADR, ADN, IMDG, IATA Void · Transport hazard class(es) · 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. · UN "Model Regulation": -

#### **15 Regulatory information**

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

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

26628-22-8 sodium azide

• Section 313 (40CFR372.65):

26628-22-8 sodium azide

#### · TSCA (Toxic Substances Control Act):

7647-14-5 sodium chloride

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7558-79-4disodium hydrogenorthophosphate7558-80-7Sodium dihydrogen phosphate9048-46-8Bovine Serum Albumin26628-22-8sodium azide63148-62-9Silicone oil9004-67-5Methly Cellulose Cell Culture Tested9005-71-4polyoxyethylenesorbitan tristearate (Tween (R) 65)7732-18-5water

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: 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 · Date of preparation / last revision 06/03/2015 / -

#### • Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

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

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

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

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