

Safety Data Sheet

acc. to OSHA HCS

Printing date 08/21/2014

Reviewed on 05/20/2014

1 Identification

- **Product identifier**
- **Trade name:** Fluidics 2
- **Catalog or product number:** 9704844
- **Relevant identified uses of the substance or mixture and uses advised against**
No further relevant information available.
- **Application of the substance / the mixture** 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
lsg_techserv_us@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.
510-741-1000

2 Hazard(s) identification

- **Classification of the substance or mixture**
The product is not classified according to the Globally Harmonized System (GHS).
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC** not applicable
- **Information concerning particular hazards for human and environment:**
not applicable
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**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Additional information:** Contact with acids may cause release of toxic gases
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 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:

9048-46-8 Bovine Serum Albumin	0.01-0.1%
7732-18-5 water	50-100%

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

4 First-aid measures

- **Description of first aid measures**
- **General information** No special measures required.
- **After inhalation** Supply fresh air; consult doctor in case of complaints.
- **After skin contact** 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.
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed** No further relevant information available.

5 Fire-fighting measures

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

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **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).
- **Reference to other sections**
No dangerous substances are released.
See Section 7 for information on safe handling
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

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7 Handling and storage

- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** 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.

• **Control parameters**• **Components with limit values that require monitoring at the workplace:****26628-22-8 sodium azide**REL () Short-term value: C 0.3** mg/m³, C 0.1* ppm*as HN₃; **as NaN₃; SkinTLV () 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.

• **Exposure controls**• **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**9 Physical and chemical properties**• **Information on basic physical and chemical properties**• **General information**• **Appearance:**

Form: Liquid
Color: Colorless

Odor: Odorless

Odour threshold: Not determined.

pH-value at 20 °C: 7.4

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- **Change in condition**
 - Melting point/Melting range:** 0 °C
 - Boiling point/Boiling range:** undetermined
- **Flash point:** Not applicable
- **Flammability (solid, gaseous)** Not applicable.
- **Ignition temperature:**
- **Decomposition temperature:** Not determined.
- **Auto igniting:** Product is not selfigniting.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Explosion limits:**
 - Lower:** Not determined.
 - Upper:** Not determined.
- **Vapor pressure at 20 °C:** 23 hPa
- **Density:** Not determined
- **Relative density** Not determined.
- **Vapour density** Not determined.
- **Evaporation rate** Not determined.
- **Solubility in / Miscibility with Water:** Fully miscible
- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - dynamic:** Not determined.
 - kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.0 %
 - Water:** 99.8 %
- **Solids content:** 0.2 %
- **Other information** No further relevant information available.

10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous 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.
- **Conditions to avoid** No further relevant information available.
- **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.

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• **Hazardous decomposition products:** No dangerous decomposition products known**11 Toxicological information**• **Information on toxicological effects**• **Acute toxicity:**• **Primary irritant effect:**• **on the skin:** No irritant effect.• **on the eye:**

No irritant effect.

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.

• **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.

• **Target organs:** Not applicable.**12 Ecological information**• **Toxicity**• **Aquatic toxicity:** No further relevant information available.• **Persistence and degradability:** No further relevant information available.• **Bioaccumulative potential:** No further relevant information available.• **Mobility in soil:** No further relevant information available.• **Additional ecological information:**• **General notes:** Generally not hazardous for water.• **Results of PBT and vPvB assessment**• **PBT:** Not applicable.• **vPvB:** Not applicable.• **Other adverse effects:** No further relevant information available.**13 Disposal considerations**• **Waste treatment methods**• **Recommendation**

Hand over to hazardous waste disposers.

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

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• **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)**• **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.

• **UN "Model Regulation":**

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15 Regulatory information• **Safety, health and environmental regulations/legislation specific for the substance or mixture**• **SARA (Superfund Amendments 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):**

9048-46-8 Bovine Serum Albumin

26628-22-8 sodium azide

9005-64-5 Tween 20

7732-18-5 water

• **Carcinogenic categories**• **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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• **TLV (Threshold Limit Value established by ACGIH)**

26628-22-8 sodium azide

A4

• **MAK (German Maximum Workplace Concentration)**

None of the ingredients is listed.

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

None of the ingredients is listed.

• **National regulations**

• **Water hazard class:** Generally not hazardous for water.

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

16 Other information

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

• **Department issuing SDS:** 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** 08/21/2014 / -

• **Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

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

• **Data compared to the previous version altered.**

USA