# BIO RAD

## Material Safety Data Sheet

Printing date 04/05/2010

Reviewed on 10/21/2009

### 1 Identification of substance:

- · Product details:
- · Trade name: <u>MP nTSH Standards</u>
- · Catalog or product number: 532-5212, 532-5213, 532-5214, 532-5215, 532-5216, 532-5217
- · 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

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

| <ul> <li>Listing of dangerous and non-hazardous components:</li> </ul>   |                        |                      |           |  |  |
|--|------------------------|----------------------|-----------|--|--|
| 7732-18-5  | water                  |                      | 50-100%   |  |  |
| 94349-60-7   | Albumins, bovine serum |                      | 5-10%     |  |  |
| 9007-83-4  | gamma globulin         |                      | 0.1-1.0%  |  |  |
| 26628-22-8   | sodium azide           | T+, N; R 28-32-50/53 | 0.01-0.1% |  |  |
| A defitience the formula of the standard of the first state of the sta |                        |                      |           |  |  |

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

### **3 Hazards identification**

- Emergency overview: 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.

· 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.

### 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.

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· 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: 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.

#### 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: 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; Skin |
| TLV (United States) | Short-term value: C 0.29** mg/m³, C 0.11* ppm<br>*as HN3 vapor **as NaN3      |
| <br>                |   |

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

· Personal protective equipment

- General protective and hygienic measures
   Keep away from foodstuffs, beverages and feed.
   Wash hands before breaks and at the end of work.
- · 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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| rade name: MP nTSH Standar   | rds   |                      |
| • Eye protection: Safety glass   | ses   | (Contd. of page      |
| 9 Physical and chemical  | properties:                                   |                      |
| · General Information  |   |                      |
| Form:<br>Color:<br>Odor:   | liquid<br>Colorless<br>Odorless               |                      |
| <ul> <li>Change in condition<br/>Melting point/Melting ran<br/>Boiling point/Boiling rang</li> </ul> |   |                      |
| · 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:   | Not determined                                |                      |
| <ul> <li>Solubility in / Miscibility wi<br/>Water:</li> </ul>  | th<br>Fully miscible                          |                      |
| · pH-value at 20°C:  | 7.5   |                      |
| <ul> <li>Solvent content:<br/>Organic solvents:<br/>Water:</li> </ul>                                | 0.0 %<br>91.7 %                               |                      |

### 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:

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:

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(Contd. of page 3) 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

### **13 Disposal considerations**

· Product:

· Recommendation

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: -

### 15 Regulations

· 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):
7732-18-5 water
7647-14-5 sodium chloride
7558-79-4 disodium hydrogenorthophosphate
26628-22-8 sodium azide
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.

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· 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: sodium azide
- **Risk phrases:** 22 Harmful if swallowed.
- **Safety phrases:** 36 Wear suitable protective clothing.

### 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.