SAFETY DATA SHEET
according to Regulation (EG) no 1907/2006
Generic EU MSDS – No country specific data
REVISION DATE: 2014-07-14

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

1.1 Product identifier

- **Product name:** Phosphate Buffered Saline (PBS) Solution
- **Article number:** 10-9402, 18-2067

1.2 Relevant identified uses of the substance or mixture, and uses advised against

- **Identified uses:** Laboratory chemical, buffer solution for various applications

1.3 Details of the supplier of the safety data sheet

- **Company:** Medicago AB
- **Address:** Danmark Berga 13, 755 98 Uppsala
- **Telephone:** +46 (0)18 56 11 80
- **Facsimile:** +46 (0)18 56 11 88
- **E-mail address:** info@medicago.se

1.4 Emergency telephone number

- **Emergency telephone number:** Giftinformationscentralen 112

2. Hazards identification

2.1 Classification of the substance or mixture

- **Classification according to Regulation (EC) No 1272/2008 (EU-GHS/CLP):** Not classified as hazardous substance or mixture

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP):** This product does not need to be labelled in accordance with EC directive or respective national laws.

  - **Signal word:** -
  - **Hazard statement(s):** -
  - **Precautionary statement(s):** -

- **Complementary hazard information:** No further information

2.3 Other hazards

- **No data available**

3. Composition/information on ingredients

3.2 Mixtures

- **No component needs to be disclosed according to applicable regulations.**

4. First aid measures

4.1 Description of first aid measures

- **If swallowed:** Rinse mouth immediately with plenty of water; get medical attention
- **If inhaled:** Move to fresh air; if person is not breathing, give artificial respiration; if breathing is difficult, give oxygen; get medical attention
- **In case of skin contact:** Wash off with soap and plenty of water; consult a physician
- **In case of eye contact:** Remove contact lenses if present and easy-to-do; rinse thoroughly with plenty for at least 15 min; consult a physician
- **General advice:** Consult a physician; show this data sheet to the doctor in attendance

4.2 Most important symptoms and effects, both acute and delayed

- **No data available**

4.3 Indication of any immediate medical attention and special treatment needed

- **No data available**
5. **Firefighting measures**

5.1 **Extinguishing media**  
Suitable extinguishing media: dry chemical powder, water spray, fog or alcohol-resistant foam

5.2 **Special hazards arising from the substance or mixture**  
No data available

5.3 **Advice for fire fighters**  
Wear self-contained breathing apparatus and full turnout gear if necessary

5.4 **Further information**  
No further information

6. **Accidental release measures**

6.1 **Personal precautions, protective equipment and emergency procedures**  
Use personal protective equipment; ensure adequate ventilation

6.2 **Environmental precautions**  
Do not let product enter drains

6.3 **Methods and material for containment and cleaning up**  
Sweep up and shovel; keep in suitable and closed container for disposal

6.4 **Reference to other sections**  
For disposal: see section 13

7. **Handling and storage**

7.1 **Precautions for safe handling**  
Wear suitable protective clothing; avoid contact with skin, eyes and clothing

7.2 **Conditions for safe storage, including any incompatibilities**  
Store at 2-8°C in a tightly closed container; use original container

7.3 **Specific end use(s)**  
No data available

8. **Exposure controls/personal protection**

8.1 **Control parameters**  
No data available

8.2 **Exposure controls**  
**Appropriate engineering controls**  
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and off hours and at the end of the workday.

**Personal protective equipment**

<table>
<thead>
<tr>
<th>Protection</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye/face protection</td>
<td>Safety glasses (EN 166)</td>
</tr>
<tr>
<td>Skin protection</td>
<td>Use gloves; gloves must be inspected before use; wash and dry hands after use.</td>
</tr>
<tr>
<td>Body Protection</td>
<td>Lab coat / impervious clothing; the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>For most conditions, no respiratory protection is needed; if, however, use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</td>
</tr>
</tbody>
</table>
9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>colourless liquid</td>
</tr>
<tr>
<td>Odour</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>pH</td>
<td>7.4 at 25°C</td>
</tr>
<tr>
<td>Melting point/ freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>no data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>soluble</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/ water</td>
<td>no data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>no data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>no data available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no data available</td>
</tr>
</tbody>
</table>

9.2 Other information

No further information

10. Stability and Reactivity

10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
No data available

10.5 Incompatible materials
Strong oxidizing agents, strong acids

10.6 Hazardous decomposition products
No data available

11. Toxicological information

11.1 Information on toxicological effects

11.1.2 Mixtures

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Serious eye damage/ eye irritation</td>
<td>No data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>No data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>No data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</td>
</tr>
</tbody>
</table>

(Continued on page 4)
Reproductive toxicity
No data available

Specific target organ toxicity – single exposure
No data available

Specific target organ toxicity – repeated exposure
No data available

Aspiration hazard
No data available

Potential health effects
Inhalation May be harmful if inhaled; may cause respiratory tract irritation.
Ingestion May be harmful if swallowed.
Skin May cause skin irritation.
Eyes May cause eye irritation.

12. Ecological information

12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
No data available

12.6 Other adverse effects
No data available

13. Disposal considerations

13.1 Waste treatment methods
Waste must be disposed of in accordance with federal, state and local environmental control regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product

14. Transport information

14.1 UN-number
ADR-RID: - IMDG: - IATA: -

14.2 UN proper shipping name
ADR-RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods

14.3 Transport hazard class(es)
ADR-RID: - IMDG: - IATA: -

14.4 Packaging group
ADR-RID: - IMDG: - IATA: -

14.5 Environmental hazards
ADR-RID: no IMDG, water pollutant: no IATA: no

14.6 Special precautions for user
No data available

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
No data available
15. Regulatory information

This data sheet complies with the requirements of Regulation (EC) No. 1907/2006

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
   No data available

15.2 Chemical safety assessment
   No data available

16. Other information

This information is based on the current state of knowledge.
Precaution and disclaimer: For laboratory use only; not for drug, household, or any other use