

MATERIAL SAFETY DATA SHEET

Phosphate-Buffered Saline (PBS)

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1. Product Details

Trade Name: Phosphate-Buffered Saline (PBS)

Catalog Number: BR0003, BR0004, BR0017, BR0025, BR0026, BR0027, BR0028, BR0035, BR0036, BR0037, BR0344, BR0347, BR0348 and BR0350.

1.2. Company Details

Supplier: Canvax Reagents S.L., Luis de Mercado St. 19, Boecillo Technological Park, Valladolid (Spain)

1.3. Emergency Telephone Number

European emergency number: 112

Spain:

CHEMTREC 900-868538

CHEMTREC (Barcelona) +(34)-931768545

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]

- **Physical hazards:** Not Hazardous
- **Health hazards:** Not Hazardous
- **Environmental Hazards:** Not Hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 (EU-GHS/CLP)

- **Hazard pictograms:** None
- **Signal word:** None
- **Hazard statements:** Not applicable
- **EU Specific Hazard Statements:** Not applicable
- **Precautionary Statements Prevention:** Not applicable
- **Response:** Not applicable
- **Storage:** Not applicable
- **Disposal:** Not applicable
- **Other Hazards:** Not applicable

3. CHEMICAL CHARACTERIZATION

Mixture

The product does not contain hazardous materials for health at the indicated concentrations. We recommend handling all chemicals with caution.



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4. FIRST AID MEASURES

4.1. Description of First Aid Measures

- **If swallowed:** rinse your mouth with water; never give anything by mouth to an unconscious person; get medical attention.
- **If inhaled:** move person to fresh air; if person is not breathing, give artificial respiration; get medical attention.
- **In case of skin contact:** wash off with soap and plenty of water; remove contaminated clothes; get medical attention.
- **In case of eye contact:** rinse immediately with plenty of water for at least 15 min; remove contact lenses if they are present and easy-to-do; get medical attention.
- **General advice:** Get medical attention; show this data sheet to the doctor in attendance.

4.2 Most important symptoms and effects, both acute and delayed

Not applicable.

4.3 Indication of any immediate medical attention and special treatment needed

None.

5. FIRE FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media: water spray, fog, foam or dry chemical powder.

5.2. Special hazards arising from the substance or mixture

Not known.

5.3. Advice for fire fighters

Standard procedure for chemical fires

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Always wear the recommended Personal Protective Equipment. Use personal protection equipment.

6.2 Environmental precautions

No special environmental precautions are required.

6.3. Methods and material for containment and cleaning up

Soak up with inert absorbent material; keep container tightly closed for disposal.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Use personal protective equipment as required. No special handling advices are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Store at room temperature in a well-ventilated area; use original container.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

- **Exposure Limits** Contains no substances with occupational exposure limit values.
- **Engineering measures** Ensure adequate ventilation, especially in confined areas.

8.2. Exposure controls

Personal protective equipment

- **Eye/face protection:** Wear safety goggles (EN 166).
- **Skin protection:** Use proper lab gloves; gloves must be inspected prior to use.
- **Body Protection:** Wear a lab coat or other impervious clothes; type of protection equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- **Respiratory protection:** In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

- **Appearance** Liquid
- **Odour** no data available
- **Melting point/ freezing point** no data available
- **Initial boiling point and boiling range** no data available
- **Flash points** no data available
- **Evaporation rates** no data available
- **Flammability (Solid, gas)** no data available
- **Upper/lower flammability or explosive limits** no data available
- **Vapour pressure** no data available
- **Vapour density** no data available
- **Relative density** no data available
- **Water solubility** completely soluble
- **Partition coefficient: n-octanol/ water** no data available
- **Auto-ignition temperature** no data available
- **Decomposition temperature** no data available
- **Viscosity** no data available
- **Explosive properties** no data available
- **Oxidizing properties** no data available

9.2 Other information

No further information

10. STABILITY AND REACTIVITY

10.1. Reactivity

None known.

10.2. Chemical stability

Stable under recommended storage conditions.



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10.3. Possibility of hazardous reactions

No data available.

10.4. Conditions to avoid

No data available.

10.5. Incompatible materials

No dangerous reaction known under conditions of normal use.

10.6. Hazardous decomposition products

No data available.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

There is no evidence available indicating acute toxicity.

11.2 Mixtures

- **Acute toxicity:** Conclusive but not sufficient for classification
- **Skin corrosion/irritation:** Conclusive but not sufficient for classification
- **Serious eye damage/ eye irritation:** Conclusive but not sufficient for classification
- **Respiratory or skin sensitization:** Conclusive but not sufficient for classification
- **Germ cell mutagenicity:** Conclusive but not sufficient for classification
- **Carcinogenicity:** Conclusive but not sufficient for classification
- **Reproductive toxicity:** Conclusive but not sufficient for classification
- **Specific target organ toxicity – single exposure:** Conclusive but not sufficient for classification
- **Specific target organ toxicity – repeated exposure:** Conclusive but not sufficient for classification

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulate potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects

No data available



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13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. Leave chemicals in original containers. Offer surplus and non-recyclable solutions to a licensed disposal company.

No mixing with other waste.

Contaminated packaging: dispose of as unused product.

14. TRANSPORT INFORMATION

IATA / ADR / DOT-US / IMDG

Not regulated in the meaning of transport regulations.

14.1 UN-number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazard class(es)

Not applicable

14.4 Packaging group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Substances of Very High Concern

None.

Restricted substances under EC 1907/2006, Annex XVII

None.

Substances listed under Annex I of Regulation (EC) No 689/2008

None.



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Restricted substances under Annex V of Regulation (EC) No 689/2008

None.

Substances under Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

None.

German Water hazard classes (Wassergefährdungsklassen)

Not classified.

Other International Inventories

No information available

Chemical Safety Assessment

No Chemical safety assessment has been carried out.

16. OTHER INFORMATION

For research use only or Further Manufacturing. Not for diagnostic or therapeutic use on humans or animals. The preceding information was acquired through a research and diligent investigation and the recommendations are based on prudent application of professional judgment. The information should not be considered exhaustive and should be used only as a guide. All materials and mixtures may present unknown hazards and should be used with care. Since the company cannot control the actual methods, volumes, or the field conditions, the company shall not be liable for any damages or losses resulting from handling or from contact with the product described herein. **THE INFORMATION IN THIS MSDS DOES NOT CONSTITUTE A WARRANTY, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.**

