



Material Safety Data Sheet

PBS (10X), pH 7.4

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

Preparation Name: PBS (10X), pH 7.4
Catalogue number of the product: CC708-0500
Use of the preparation:
For laboratory use.
Company identification: Genedirex, Inc.
Website: www.genedirex.com

2. HAZARDS IDENTIFICATION

GHS - Classification
Signal Word None
Hazard pictograms None
Health hazards Not Hazardous
Environmental hazards Not Hazardous
Hazard Statements Not Applicable
Precautionary Statements
Prevention Not Applicable
Response Not Applicable
Storage Not Applicable
Disposal Not Applicable
Other hazards Not Applicable
HMIS
Health 0
Flammability 0
Reactivity 0

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Ingredients:
Water < 100% (v/v) EC#231-791-2 CAS#7732-18-5

4. FIRST-AID MEASURES

Description of first aid measures
Skin contact Rinse with plenty of water. Immediate medical attention is not required.
Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.
Inhalation Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.
Notes to Physician Treat symptomatically.
Most important symptoms and effects, both acute and delayed Not Applicable
Indication of any immediate medical attention and special treatment needed None

5. FIRE-FIGHTING MEASURES

Extinguishing media
Suitable extinguishing media Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.
Unsuitable extinguishing media No information available
Special hazards arising from the substance or mixture Not known
Protective equipment and precautions for firefighters Standard procedure for chemical fires.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Always wear recommended Personal Protective Equipment

Use personal protection equipment

See Section 8 for more detail.

Environmental precautions

No special environmental precautions required.

Methods and material for containment and cleaning up

Soak up with inert absorbent material.

Reference to other sections

See section 8 for more information.

7. HANDLING AND STORAGE

Precautions for safe handling

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

Conditions for safe storage, including any incompatibilities

Keep in a dry, cool and well-ventilated place. Keep in properly labelled containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits Contains no substances with occupational exposure limit values.

Engineering measures Ensure adequate ventilation, especially in confined areas

Exposure controls

Personal protective equipment

Respiratory protection In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection Wear suitable gloves Glove material: Compatible chemical-resistant gloves.

Eye protection Tight sealing safety goggles

Skin and Body Protection Wear suitable protective clothing

Hygiene measures Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls No special environmental precautions required.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Liquid

Odour No data available

pH 6-8

Melting point / melting range °C Mixture has not been tested °F Mixture has not been tested

Boiling point / boiling range °C Mixture has not been tested °F Mixture has not been tested

Flash point °C Mixture has not been tested °F Mixture has not been tested

Autoignition temperature °C Mixture has not been tested °F Mixture has not been tested

Decomposition temperature °C Mixture has not been tested °F Mixture has not been tested

Evaporation rate No data available

Flammability (solid, gas) No data available

Upper explosion limit Mixture has not been tested

Lower explosion limit Mixture has not been tested



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| Vapour pressure | Mixture has not been tested |
| Relative density | Mixture has not been tested |
| Specific gravity | No data available |
| Solubility | No data available |
| Partition coefficient | No data available |
| n-octanol/water | Mixture has not been tested |
| Explosive properties | Mixture has not been tested |
| Other information | No data available |

10. STABILITY AND REACTIVITY

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|------------------------------------|---|
| Reactivity | None known. |
| Chemical stability | Stable under normal conditions. |
| Possibility of hazardous reactions | Hazardous reaction has not been reported. |
| Conditions to avoid | No information available. |
| Incompatible materials | No dangerous reaction known under conditions of normal use. |
| Hazardous decomposition products | No data available |

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

There is no evidence available indicating acute toxicity.

Principal Routes of Exposure

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|---|--|
| Skin corrosion/irritation | Conclusive but not sufficient for classification |
| Serious eye damage/irritation | Conclusive but not sufficient for classification |
| Respiratory or skin sensitization | Conclusive but not sufficient for classification |
| Specific target organ toxicity (STOT)—single exposure | Conclusive but not sufficient for classification |
| Specific target organ toxicity (STOT)—repeated exposure | Conclusive but not sufficient for classification |
| Carcinogenicity | Conclusive but not sufficient for classification |
| Germ cell mutagenicity | Conclusive but not sufficient for classification |
| Reproductive toxicity | Conclusive but not sufficient for classification |
| Aspiration hazard | Conclusive but not sufficient for classification |

12. ECOLOGICAL INFORMATION

| | |
|------------------------------------|--|
| Toxicity | Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. |
| Mobility in soil | No information available. |
| Persistence and degradability | No information available. |
| Bioaccumulative potential | No information available. |
| Results of PBT and vPvB assessment | This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| Other adverse effects | No information available |

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.



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14. TRANSPORT INFORMATION

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|--|---|
| IATA / ADR / DOT-US / IMDG | Not regulated in the meaning of transport regulations |
| UN number | Not Applicable |
| UN proper shipping name | Not Applicable |
| Transport hazard class(es) | Not Applicable |
| Packing group | Not Applicable |
| Environmental hazards | Not Applicable |
| Special precautions for user | Not Applicable |
| Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | Not Applicable |

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

This product is not regulated by SARA.

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain HAPs.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. GeneDireX, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.