

MATERIAL SAFETY DATA SHEET

PureSperm[®] Buffer

1.0 Identification of the Substance/Preparation and of the Company/Undertaking

Product Name: **PureSperm[®] Buffer**

Product Catalogue No: **PSB-100**

PureSperm[®] Buffer is a sterile (autoclaved) isotonic salt solution. Optimised for the dilution of PureSperm 100 in the density gradient preparation of sperm. 100 mL quantities in borosilicate glass bottles, with silicone stoppers and tamper-evident seals.

Manufacturer: **NidaCon International AB**, Flöjelbergsgatan 16B, SE-431 37, Mölndal, Sweden.

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2.0 Composition/Information on Ingredients

Hazardous ingredients: None established, no ingredients listed as carcinogens. Contains a physiological salt solution.

3.0 Hazard Identification

Physical hazards:	None established.
Human Health Effects and Symptoms of Acute Exposure:	None established.
Human Health Effects and Chronic Exposure:	None established.

4.0 First-Aid Measures

If inhaled:	Remove from exposure. Transfer person to fresh air. If discomfort persists, obtain medical attention.
In case of skin contact:	Wash off with an abundance of water.
In case of eye Contact:	Flush thoroughly with physiological saline for 15 minutes. If discomfort persists, obtain medical attention.
If swallowed:	Rinse mouth with water and give water to drink. Never give water to unconscious person. Obtain medical attention.

5.0 Fire-Fighting Measures

Suitable extinguishing media:	Carbon dioxide, dry chemicals or foam.
Special fire or explosion hazards:	Not applicable.
Products of combustion:	Not applicable.
Special exposure hazards:	Not applicable.
Protective equipment for fire fighters:	Use correct equipment applicable to primary cause of fire.

6.0 Accidental Release/Spill Measures

Personal precautions:	Not applicable.
Environmental precautions:	Not applicable.
Clean-Up methods:	Wipe up using appropriate absorbent material and dispose with normal laboratory refuse, according to community, state or federal regulations.

7.0 Handling and Storage

Incompatible materials:	Not applicable
Storage conditions:	Store at room temperature or refrigerated +2° to +8°C.
Handling recommendation:	Not applicable
Handling precautions:	Avoid inhaling, ingestion, and contact with eyes and skin.

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8.0 Exposure Control/Personal Protection

Exposure limit:	Not established.
Ventilation requirements:	Normal ventilation.
Respiratory protection:	If dried down to powder form, use face mask when handling large quantities.
Eye protection:	Use safety goggles when handling large quantities.
Skin protection:	Use protection gloves when handling large quantities.

9.0 Physical and Chemical Properties

Appearance: White/beige transparent liquid	Upper Flammable Limits (%): Not applicable.
Odour: odourless	Lower Flammable Limit (%): Not applicable.
Acid/Base: pH 7.3-7.8 (neutral)	Auto flammability (°C): Not applicable.
Viscosity: Physiological salt solution	Vapour Pressure: Not applicable.
Freezing/Melting Point: approx 0°C	Relative Density (water=1): Approx 1.1
Boiling Point: approx 100°C	Solubility in water: Already an aqueous solution.
Flash Point: Not Applicable	Percent Volatility: Not Applicable.
Osmolality: 300-310 mOsm	Aqueous salt solution.

10.0 Stability and Reactivity

Stability under normal conditions:	Stable.
Explosive Properties:	Not Applicable.
Hazardous Decomposition:	Thermal decomposition may yield oxides of carbon
Hazardous Polymerization:	Will not occur.
Incompatible Materials to avoid:	Avoid contact with oxidizing agents such as nitric acid.

11.0 Toxicological Information

Product is essentially inert. No toxic or ill effects under normal operating conditions.

12.0 Ecological Information

No known adverse ecological effects.

13.0 Disposal Considerations

According to applicable regulations for aqueous, physiological salt solutions, i.e., open container and flush contents with tap water via a drain into the sewage system according to local community, state or federal regulations. The glass bottles and paper cartons can be recycled without adverse problems in the recycled glass and paper system, respectively.

14.0 Transport Information

Transport Information: Non-regulated transport. Non-dangerous goods.

15.0 Regulatory Information

Certified according to SS-EN ISO 9001 and SS-EN ISO 13485.

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