

# **Material Safety Data Sheet**

Version 5.2 Revision Date 02/21/2013 Print Date 02/03/2014

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Phosphate buffered saline
Product Number Brand	:	9.2000 Neutron
Supplier	:	NEUTRON PHARMACHEMICAL CO 98, 9th Floor, Borjsaz Building, Azadi Ave, Tehran, Iran.
Telephone Fax Emergency Phone # (For both supplier and	:	021-66906732-3 021-66581408 125
manufacturer) Preparation Information	:	info@neutronco.com www.neutronco.com

# 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

## **OSHA Hazards**

No known OSHA hazards

Not a dangerous substance or mixture according to the Globally Harmonised System (GHS).

## HMIS Classification

Health hazard:	1
Flammability:	0
Physical hazards:	0
NFPA Rating	

Health hazard:	1
Fire:	0
Reactivity Hazard:	0

## **Potential Health Effects**

Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
Skin	May be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.
Ingestion	May be harmful if swallowed.

# **3. COMPOSITION/INFORMATION ON INGREDIENTS**

Synonyms : PBS

Component		Classification	Concentration
Disodium hydrogen	orthophosphate		
CAS-No.	7558-79-4		1 - 5 %
EC-No.	231-448-7		

# lf inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

## In case of skin contact

Wash off with soap and plenty of water.

## In case of eye contact

Flush eyes with water as a precaution.

## If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water.

## **5. FIREFIGHTING MEASURES**

#### Conditions of flammability

Not flammable or combustible.

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## Special protective equipment for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## Hazardous combustion products

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus, Hydrogen chloride gas, Sodium oxides

# 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions

Avoid breathing vapours, mist or gas.

## **Environmental precautions**

Do not let product enter drains.

# Methods and materials for containment and cleaning up

Keep in suitable, closed containers for disposal.

# 7. HANDLING AND STORAGE

## Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

# 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

### Personal protective equipment

### **Respiratory protection**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

## Skin and body protection

impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Hygiene measures

# 9. PHYSICAL AND CHEMICAL PROPERTIES

## Appearance

Form	liquid
Colour	no data available
Safety data	
рН	no data available
Melting point/freezing point	no data available
Boiling point	no data available
Flash point	no data available
Ignition temperature	no data available
Auto-ignition temperature	no data available
Lower explosion limit	no data available
Upper explosion limit	no data available
Vapour pressure	no data available
Density	no data available
Water solubility	no data available
Partition coefficient: n-octanol/water	no data available
Relative vapour density	no data available
Odour	no data available
Odour Threshold	no data available
Evapouration rate	no data available

# **10. STABILITY AND REACTIVITY**

## **Chemical stability**

Stable under recommended storage conditions.

Possibility of hazardous reactions no data available

# Conditions to avoid no data available

Materials to avoid no data available

# Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Oxides of phosphorus, Hydrogen chloride gas, Sodium oxides

Other decomposition products - no data available

# **11. TOXICOLOGICAL INFORMATION**

## Acute toxicity

**Oral LD50** no data available

Inhalation LC50

no data available

Dermal LD50 no data available

# Other information on acute toxicity

no data available

Skin corrosion/irritation no data available

Serious eye damage/eye irritation

Eyes: no data available

**Respiratory or skin sensitisation** no data available

Germ cell mutagenicity no data available

## Carcinogenicity

- 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.
- ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.
- NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
- OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Reproductive toxicity

no data available

# Teratogenicity

no data available

Specific target organ toxicity - single exposure (Globally Harmonized System) no data available

Specific target organ toxicity - repeated exposure (Globally Harmonized System) 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 be harmful if absorbed through skin. May cause skin irritation.
Eyes	May cause eye irritation.

## Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Synergistic effects no data available

# Additional Information

RTECS: Not available

# Toxicity

no data available

## Persistence and degradability no data available

# **Bioaccumulative potential**

no data available

# Mobility in soil

no data available

#### PBT and vPvB assessment no data available

Other adverse effects

no data available

# **13. DISPOSAL CONSIDERATIONS**

# Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

# Contaminated packaging

Dispose of as unused product.

# **14. TRANSPORT INFORMATION**

DOT (US) Not dangerous goods

IMDG Not dangerous goods

ΙΑΤΑ Not dangerous goods

# **15. REGULATORY INFORMATION**

**OSHA Hazards** No known OSHA hazards

# SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

# SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

No SARA Hazards

# Massachusetts Right To Know Components

Disodium hydrogenorthophosphate	CAS-No. 7558-79-4	Revision Date 2007-03-01
Pennsylvania Right To Know Components		
, , , , , , , , , , , , , , , , , , , ,	CAS-No.	<b>Revision Date</b>
Water	7732-18-5	
Sodium chloride	7647-14-5	
Disodium hydrogenorthophosphate	7558-79-4	2007-03-01
New Jersey Right To Know Components		
	CAS-No.	Revision Date
Water	7732-18-5	
Sodium chloride	7647-14-5	
Disodium hydrogenorthophosphate	7558-79-4	2007-03-01

# California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

# **16. OTHER INFORMATION**

## **Further information**

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