

# SAFETY DATA SHEET

Creation Date 22-Sep-2009

Revision Date 18-Jan-2018

**Revision Number** 3

### 1. Identification **Product Name PBS Phosphate Buffered Saline** Cat No. : BP661-10, BP661-50, BP665-1 Synonyms No information available

**Recommended Use** Uses advised against

Laboratory chemicals. Not for food, drug, pesticide or biocidal product use

### Details of the supplier of the safety data sheet

### Company

Fisher Scientific One Reagent Lane Fair Lawn, NJ 07410 Tel: (201) 796-7100

### **Emergency Telephone Number**

CHEMTREC®, Inside the USA: 800-424-9300 CHEMTREC®, Outside the USA: 001-703-527-3887

### 2. Hazard(s) identification

### Classification

Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Based on available data, the classification criteria are not met

## Label Elements

None required

### Hazards not otherwise classified (HNOC)

#### Other hazards

May cause eye, skin, and respiratory tract irritation.

### 3. Composition/Information on Ingredients

Component	CAS-No	Weight %
Sodium chloride	7647-14-5	81.0
Sodium phosphate dibasic	7558-79-4	~ 14
Dihydrogen potassium phosphate	7778-77-0	~ 3.0
Potassium chloride	7447-40-7	~ 2.0

4. First-aid measures			
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.		
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.		
Inhalation	Move to fresh air. Get medical attention immediately if symptoms occur. If not breathing, give artificial respiration.		
Ingestion	Do not induce vomiting. Obtain medical attention.		
Most important symptoms and	No information available.		
effects Notes to Physician	Treat symptomatically		

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray or fog is preferred; if water not available use dry chemical, CO2 or regular foam.
Unsuitable Extinguishing Media	No information available
Flash Point Method -	No information available No information available
Autoignition Temperature Explosion Limits	No information available
Upper Lower Sensitivity to Mechanical Impact Sensitivity to Static Discharge	No data available No data available No information available No information available

### Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Containers may explode when heated.

### Hazardous Combustion Products

Sodium oxides Potassium oxides oxides of phosphorus

### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 1	<b>Flammability</b> 0	Instability 1	Physical hazards N/A
	6. Accidental rel	ease measures	
Personal Precautions Environmental Precautions	Use personal protective eq See Section 12 for addition	uipment. Ensure adequate vent al ecological information.	illation. Avoid dust formation.

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

7.	Hand	ling	and	stor	age

Handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation. Avoid contact with skin, eyes and clothing.

Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.			
8. E	xposure controls / personal protection			
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.			
Engineering Measures	None under normal use conditions.			
Personal Protective Equipment				
Eye/face Protection	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.			
Skin and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.			
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.			
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.			

9. Physical and chemical properties

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Physical State	Solid
Appearance	White
Odor	Odorless
Odor Threshold	No information available
рН	No information available
Melting Point/Range	No data available
Boiling Point/Range	No information available
Flash Point	No information available
Evaporation Rate	Not applicable
Flammability (solid,gas)	No information available
Flammability or explosive limits	
Upper	No data available
Lower	No data available
Vapor Pressure	No information available
Vapor Density	Not applicable
Specific Gravity	No information available
Solubility	Soluble in water
Partition coefficient; n-octanol/water	No data available
Autoignition Temperature	No information available
Decomposition Temperature	No information available
Viscosity	Not applicable

# 10. Stability and reactivity

Reactive Hazard	None known, based on information available
Stability	Stable under normal conditions. Hygroscopic.
Conditions to Avoid	Incompatible products. Exposure to moisture.
Incompatible Materials	Strong oxidizing agents
Hazardous Decomposition Product	${f s}$ Sodium oxides, Potassium oxides, oxides of phosphorus
Hazardous Polymerization	Hazardous polymerization does not occur.

None under normal processing.

### 11. Toxicological information

### Acute Toxicity

Product Information	No acute toxicity information is available for this product
Oral LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Dermal LD50	Based on ATE data, the classification criteria are not met. ATE > 2000 mg/kg.
Mist LC50	Based on ATE data, the classification criteria are not met. ATE > 5 mg/l.
Component Information	

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium chloride	LD50 = 3 g/kg (Rat)	LD50 > 10 g/kg (Rabbit)	LC50 > 42 g/m³(Rat)1 h
Sodium phosphate dibasic	LD50 = 17 g/kg (Rat)	Not listed	Not listed
Dihydrogen potassium phosphate	Not listed	LD50 > 4640 mg/kg (Rabbit)	Not listed
Potassium chloride	LD50 = 2600 mg/kg (Rat)	Not listed	Not listed

### Toxicologically Synergistic No information available

Products

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation

May cause eye, skin, and respiratory tract irritation

Sensitization No information available

Carcinogenicity

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Sodium chloride	7647-14-5	Not listed	Not listed	Not listed	Not listed	Not listed
Sodium phosphate dibasic	7558-79-4	Not listed	Not listed	Not listed	Not listed	Not listed
Dihydrogen potassium phosphate	7778-77-0	Not listed	Not listed	Not listed	Not listed	Not listed
Potassium chloride	7447-40-7	Not listed	Not listed	Not listed	Not listed	Not listed
Mutagania Effecto		No information our	labla			

Mutagenic Effects No information available

Reproductive Effects	No information available.
Developmental Effects	No information available.

Teratogenicity No information available.

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STOT - single exposureNone knownSTOT - repeated exposureNone known
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Aspiration hazard No information available

# Symptoms / effects,both acute and No information available delayed

Endocrine Disruptor Information No information available

Other Adverse Effects

The toxicological properties have not been fully investigated. 12. Ecological information

Ecotoxicity

Component	Freshwa	ater Algae	Freshwater Fish	Microtox	Water Flea
Sodium chloride	Not listed		Pimephals prome: LC50: 7650 mg/L/96h	Not listed	EC50: 1000 mg/L/48h
Potassium chloride	EC50: 2500 mg/L/72h		Lepomis macrochirus: LC50: 1060 mg/L /96h Pimephales promelas: LC50: 750 - 1020 mg/L /96h	Not listed	EC50: 825 mg/L/48h
Persistence and Degradal	bility	No information	on available		
Bioaccumulation/ Accumu	Bioaccumulation/ Accumulation No information available.				
Mobility	No information available.				
		13. Di	sposal considera	ations	
Waste Disposal Methods		Chemical waste generators must determine whether a discarded chemical is classified as hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.			

	14. Transport information
DOT	Not regulated
DOT TDG IATA	Not regulated
<u>IATA</u>	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

#### International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Sodium chloride	Х	Х	-	231-598-3	-		Х	Х	Х	Х	Х
Sodium phosphate dibasic	Х	Х	-	231-448-7	-		Х	Х	Х	Х	Х
Dihydrogen potassium phosphate	Х	Х	-	231-913-4	-		Х	Х	Х	Х	Х
Potassium chloride	Х	Х	-	231-211-8	-		Х	Х	Х	Х	Х

- Legend:
- X Listed

E - Indicates a substance that is the subject of a Section 5(e) Consent order under TSCA.

F - Indicates a substance that is the subject of a Section 5(f) Rule under TSCA.

N - Indicates a polymeric substance containing no free-radical initiator in its inventory name but is considered to cover the designated polymer made with any free-radical initiator regardless of the amount used.

P - Indicates a commenced PMN substance

R - Indicates a substance that is the subject of a Section 6 risk management rule under TSCA.

S - Indicates a substance that is identified in a proposed or final Significant New Use Rule

T - Indicates a substance that is the subject of a Section 4 test rule under TSCA.

XU - Indicates a substance exempt from reporting under the Inventory Update Rule, i.e. Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(B).

Y1 - Indicates an exempt polymer that has a number-average molecular weight of 1,000 or greater.

Y2 - Indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.

#### U.S. Federal Regulations

TSCA 12(b)	Not applicable
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SARA 313 Not applicable

SARA 311/312 Hazard Categories See section 2 for more information

#### CWA (Clean Water Act)

Component         CWA - Hazardous         CWA - Reportable           Substances         Quantities	CWA - Toxic Pollutants CWA - Priority Pollutants
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### **PBS Phosphate Buffered Saline**

Sodium phosphate dibasic	Х	5000 lb	-	-

### Clean Air Act Not applicable

**OSHA** Occupational Safety and Health Administration Not applicable

### CERCLA

Not applicable

Component	Hazardous Substances RQs	CERCLA EHS RQs
Sodium phosphate dibasic	5000 lb	-

California Proposition 65 This product does not contain any Proposition 65 chemicals

### U.S. State Right-to-Know

Regulations					
Component	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sodium phosphate	Х	Х	Х	-	-
dibasic					

### **U.S.** Department of Transportation

Reportable Quantity (RQ):	Ν
DOT Marine Pollutant	Ν
DOT Severe Marine Pollutant	Ν

### U.S. Department of Homeland Security

This product does not contain any DHS chemicals.

### Other International Regulations

Mexico - Grade	No information available		
	16. Other information		
Prepared By	Regulatory Affairs Thermo Fisher Scientific Email: EMSDS.RA@thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	22-Sep-2009 18-Jan-2018 18-Jan-2018 This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 CFR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).		

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

### **End of SDS**