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Rev. 4

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: 10X PBS (Phosphate Buffered Saline)
Product Code: IB70165 & IB70166
Recommend Use: For further manufacturing use only
Not for human or animal drug use
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: Skin Irritant 2 Eye Irritant 2
Signal Word: Warning



Hazard Statements: H315-Causes skin irritation * H319-Causes serious eye irritation * H335-May cause respiratory irritation.

Precautionary Statements: P280-Wear protective gloves/protective clothing/eye protection/face protection * P302+P352-IF ON SKIN: Wash with plenty of soap and water * P304+P340-IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing * P311-Call a Poison Center or doctor/physician * P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	<u>Sodium Chloride</u>	<u>Sodium Phosphate</u>	<u>Potassium Phosphate</u>	<u>Potassium Chloride</u>
EC No.:	EEC No. 231-598-3	EEC No. 231-448-7	EEC No. 231-913-4	EEC No. 231-211-8
REACH Reg. No.:	Not Available	Not available	Not available	Not available
CAS No.:	7647-14-5	7558-79-4	7778-77-0	7447-40-7
Weight %:	>1%	>1%	>1%	>1%
Classification:	-	-	-	-

4. FIRST AID MEASURES

Eye Contact:	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
Skin Contact:	Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes.
Inhalation:	Move to fresh air. If breathing becomes difficult, give oxygen.
Ingestion:	Clean mouth with water and afterwards drink plenty of water.
Notes to Physician:	Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties:	Not flammable
Flash Point:	Not determined
Suitable Extinguishing Media:	Dry chemical, CO ₂ , water spray, or regular foam
Hazardous Combustion Products:	No information available
Explosion Data	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
Protective Equip. & Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin, eyes, and clothing. Use personal protective equipment. Ensure adequate ventilation.
Methods for Containment:	Prevent further leakage or spillage, if safe to do so.
Methods for Cleaning Up:	Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Keep container tightly closed in a dry, cool, and well ventilated place. Hygroscopic. Protect from moisture.
Incompatible Products:	Strong acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems
<u>Personal Protective Equipment</u>	
Eye/Face Protection:	Tight fitting safety goggles.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear and colorless liquid
Odor:	No information available
Odor Threshold:	No information available
Decomposition Temp. °C:	No information available

Freezing Point:	No information available
Initial Boiling Point:	No information available
Physical State:	Liquid
pH:	No data available
Flash Point:	No data available
Autoignition Temp. °C:	No data available
Boiling Point/Range:	No data available
Melting Point/Range:	No data available
Flammability Limits (Air):	<u>Upper</u> -No data available * <u>Lower</u> -No data available
Explosive Properties:	No information available
Oxidizing Properties:	No information available
Evaporation Rate:	No data available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Density:	No data available
Solubility:	No information available
Water Solubility:	No data available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Incompatible Products:	Strong acids
Conditions to Avoid:	Protect from moisture
Hazardous Decomposition Products:	Carbon oxides
Hazardous Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:	Irritating to eye, skin, and respiratory system.		
Chemical Name:	<u>LD50 Oral</u>	<u>LD50 Dermal</u>	<u>LC50 Inhalation</u>
Sodium Chloride:	3g/kg (Rat)	10g/kg (Rabbit)	42g/m ³ (Rat) 1hr
Sodium Phosphate:	17g/kg (Rat)	-	-
Potassium Phosphate:	-	4640mg/kg (Rabbit)	-
Potassium Chloride:	2600mg/kg (Rat)	-	-

Chronic Toxicity

Chronic Toxicity:	No known effect based on information supplied.
Target Organ Effects:	Heart

12. ECOLOGICAL INFORMATION

Ecotoxicity:	Harmful to aquatic organisms.	
Chemical Name:	<u>Sodium Chloride</u>	<u>Potassium Chloride</u>
Toxicity to Algae:	-	EC50 = 2500mg/L 72hr
Toxicity to Fish:	LC50 = 6020-7070mg/L Pimephales promelas (96hr) LC50 = 6420-6700mg/L Pimephales promelas (96hr) LC50 = 4747-7824mg/L Oncorhynchus mykiss (96hr)	LC50 = 750-1020mg/L Pimephales promelas (96hr) LC50 = 1060mg/L Lepomis macrochirus (96hr)

LC50 = 12946mg/L Lepomis
macrochirus (96hr)
LC50 = 7050mg/L Pimephales
promelas (96hr)
LC50 = 5560-6080mg/L Lepomis
macrochirus (96hr)

Microtox	-	-
Daphnia Magna (Water Flea):	-	-

13. DISPOSAL CONSIDERATIONS

Water Disposal Method: Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging: Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

IATA
Not regulated

US DOT
Not regulated

15. TOXICOLOGICAL INFORMATION

<u>REACH Title VII Restrictions</u>	No information available	
Chemical Name:	<u>Sodium Chloride</u>	<u>Sodium Phosphate</u>
Dangerous Substances:	Not applicable	Not applicable
Organic Solvents:	Not applicable	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable	Not applicable
Chemical Name:	<u>Potassium Phosphate</u>	<u>Potassium Chloride</u>
Dangerous Substances:	Not applicable	Not applicable
Organic Solvents:	Not applicable	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable	Not applicable

International Inventories

TSCA:	Complies
DSL:	Complies
EINECS/ELINCS:	Complies
ENCS:	Complies
IECSC:	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain a chemical/chemicals which are subject to the reporting requirements of the Act & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

This product does not contain any substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Clean Air Act

Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61). This product does not contain any substances which are listed hazardous air pollutants (HAPs) under Section 112 of the Clean Air Act.

CERCLA

Chemical Name:	Sodium Phosphate - #7558-79-4
Hazardous Substance RQs:	5000lbs
Extremely Hazardous Substances RQs:	X

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

Chemical Name:

Sodium Phosphate - #7558-79-4

State

Massachusetts	X
New Jersey	X
Pennsylvania	X
Illinois	-
Rhode Island	-

International Regulations

Mexico

No information available

Canada

No information available

WHMIS Hazard Class
D2B – Toxic materials



16. OTHER INFORMATION

Issuing Date:	16-Dec-2009
Revision Date:	5-Jun-2018
Revision Note:	Updated address and logo
Recommended Restrictions:	No information available
Disclaimer:	The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

End of Safety Data Sheet