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Rev. 1

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

Product Name: 1X PBS (Phosphate Buffered Saline) with 0.05% Tween 20
Product Code: IB70167
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: Not a hazardous substance or mixture.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name:	EC No.:	CAS No.:	Weight %:	Classification:
<u>Sodium Chloride</u>	EEC No. 231-598-3	7647-14-5	>1%	-
<u>Sodium Phosphate</u>	EEC No. 231-448-7	7558-79-4	>1%	-
<u>Potassium Phosphate</u>	EEC No. 231-913-4	7778-77-0	>1%	-
<u>Potassium Chloride</u>	EEC No. 231-211-8	7447-40-7	>1%	-
<u>Tween 20</u>	EEC No. 500-018-3	9005-64-5	>1%	-

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. Get medical attention if symptoms occur.
Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable
Flash Point: Not determined
Suitable Extinguishing Media: Dry chemical, CO₂, water spray, or regular foam

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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.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems
Personal Protective Equipment	
Eye/Face Protection:	Tight fitting safety goggles.
Skin & Body Protection:	Wear protective gloves/clothing.
Respiratory Protection:	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

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

Reactive Hazard:	None known, based on information available
Stability:	Stable under recommended storage conditions
Incompatible Products:	Strong oxidizing agents
Conditions to Avoid:	Incompatible products
Hazardous Decomposition Products:	Hydrogen chloride, Oxides of phosphorus, Sodium oxides
Hazardous Polymerization:	Hazardous polymerization does not occur.
Hazardous Reactions:	None under normal processing.

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

Product Information:	No data available		
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)	-	-
Tween 20:	37000 mg/kg (Rat)	-	-
	36700 µL/kg (Rat)		

Chronic Toxicity

Chronic Toxicity: No known effect based on information supplied.

Target Organ Effects: No data available

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**REACH Title VII Restrictions**

	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
Chemical Name:	<u>Tween 20</u>	
Dangerous Substances:	Not applicable	
Organic Solvents:	Not applicable	
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable	
Pollution Release and Transfer Registry (Class II):	Not applicable	
Pollution Release and Transfer Registry (Class I):	Not applicable	
Poison and Deleterious Substances Control Law:	Not applicable	
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable	
ISHA – Harmful Substances Requiring Permission:	Not applicable	
Toxic Chemical Classification Listing (TCCL):	Not applicable	
Toxic Release Inventory (TRI) – Group I:	Not applicable	
Toxic Release Inventory (TRI) – Group II:	Not applicable	

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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	No
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: 05-Jun-2023

Revision Date: -

Revision Note: -

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