

# Safety Data Sheet

REVISION: 02/28/2022

### **SECTION 1: Product and Company Identification**

### Identification of the substance or mixture

Product Name:FISH Blocking Buffer in PBSCatalog #:10619

### **Company Identification**

Cepham Life Sciences Inc. 11830 W Market Place, Suite K Fulton, MD 20759 USA Toll Free: 1-800-257-1565 Phone: 410-636-4954

24-hour Emergency Response for Hazardous Materials [or Dangerous Goods] Incident, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Toll Free: 1-800-424-9300/ +1 703-527-3887 CCN 1010970

For Research Use Only. Not for use in diagnostic procedures.

<b>SECTION 2: Hazards</b>	SECTION 2: Hazards identification				
OSHA/HCS status:	1910.12	00), this MSDS contains valua	ble information critical to	lazard Communication Standard (29 CFR the safe handling and proper use of the byees and other users of this product.	
Classification of the substance or mixture:	Not class	sified.			
GHS label elements					
Signal word: Hazard statemer	nts:	No signal word. No known significant effects o	or critical hazards.		
Prevention: Response: Storage: Disposal:	Response:Not applicable.Storage:Not applicable.				
<b>SECTION 3: Composition</b>	sition /	Information on Ingredie	ents		
Substance / mixture:		Mixture			
Other means of identification: Not available					
CAS number / other iden CAS Number:	tifiers:	Not applicable.			
Ingredient name		%		CAS number	
disodium hydrogenorthop	ohosphate	9 0.1 - 1		7558-79-4	

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

### **SECTION 4: First Aid Measures**

Descripti	on of first aid measures	
	Eye Contact:	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Skin contact:	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Ingestion:	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	ortant symptoms and effects Potential acute health effect	
	Eye contact:	s No known significant effects or critical hazards.
	Inhalation:	No known significant effects or critical hazards.
	Skin contact:	No known significant effects or critical hazards.
	Ingestion:	No known significant effects or critical hazards.
Over-exp	osure signs / symptoms	
-	Eye contact:	No specific data.
	Inhalation:	No specific data.
	Skin contact:	No specific data.
	Ingestion:	No specific data.
Indicatio	n of any immediate medical a	attention and special treatment needed, if necessary
	Notes to physician:	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Specific treatments:	No specific treatment.
	Protection of first-aiders:	No action shall be taken involving any personal risk or without suitable training.
See toxic	ological information (Section	n 11).

### **SECTION 5: Firefighting Measures**

#### Extinguishing media

**Suitable extinguishing media:** Use an extinguishing agent suitable for the surrounding fire.

#### Unsuitable extinguishing media:

None known.

#### Specific hazards arising from the chemical

In a fire or if heated, a pressure increase will occur and the container may burst.

#### Hazardous thermal decomposition products

Decomposition products may include the following materials: phosphorus oxides metal oxide/oxides

#### Special protective actions for fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

#### Special protective equipment for fire-fighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### **SECTION 6: Accidental Release Measures**

#### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

#### For emergency responders

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For nonemergency personnel".

#### **Environmental precautions:**

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

#### Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

#### Large spill

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### **SECTION 7: Handling & Storage**

#### Precautions for safe handling

#### Protective measures

Put on appropriate personal protective equipment (see Section 8).

#### Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

### Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 2 to 8°C (35.6 to 46.4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### **SECTION 8: Exposure Controls / Personal Protection**

#### **Control parameters**

Occupational exposure limits

Appropriate engineering controls Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### **Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye / face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

#### Skin protection

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### **SECTION 9: Physical and Chemical Properties**

### Information on basic physical and chemical properties

a) Appearance	Form: liquid
b) Odor	No data available
c) Odor Threshold	No data available
d) pH	7.3 to 7.5
e) Melting point/freezing point	No data available
f) Initial boiling point and boiling range	No data available
g) Flash point	No data available
h) Evaporation rate	No data available
i) Flammability (solid, gas)	No data available
j) Upper/lower flammability or	No data available
explosive limits	
k) Vapor pressure	No data available
I) Vapor density	No data available
m) Relative density	No data available
n) Water solubility	Soluble
o) Partition coefficient: n-octanol/water	No data available
p) Auto-ignition temperature	No data available
<ul> <li>q) Decomposition temperature</li> </ul>	No data available
r) Viscosity	No data available
<ul> <li>s) Explosive properties</li> </ul>	No data available
<ul> <li>t) Oxidizing properties</li> </ul>	No data available

#### Other safety information

No data available

### SECTION 10: Stability & Reactivity

#### Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### **Chemical stability**

The product is stable.

#### Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### Conditions to avoid

No specific data.

#### Incompatible materials

No specific data.

#### Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### **SECTION 11: Toxicological Information**

#### Information on toxicological effects

#### Acute toxicity:

Product / ingredient name	Result	Species	Dose	Exposure
Disodium	LD50 Oral	Rat	17000 mg/kg	-
hydrogenorthophosphate				

Conclusion/Summary: To the best of our knowledge, the toxicological properties of this product have not been thoroughly investigated.

Irritation / Corrosion

Product / ingredient name	Result	Species	Score	Exposure	Observation
Disodium	Eyes – mild irritant	Rabbit	-	24 hours 500 mg	-
hydrogenorthophosphate	Skin – Mild irritant	Rabbit	-	24 hours 500 mg	-

Not available.

#### Mutagenicity Not available.

Carcinogenicity Not available.

#### Classification

Product / ingredient name	OSHA	IARC	NTP
Disodium	None.	-	-
hydrogenorthophosphate			

#### Reproductive toxicity

Not available

#### Teratogenicity Not available

Specific target organ toxicity (single exposure) Not available.

#### Specific target organ toxicity (repeated exposure) Not available.

Aspiration hazard

Not available.

### Information on the likely routes of exposure

Routes of entry anticipated: oral, dermal, inhalation.

### Potential acute health effects

Eye contact:	No known significant effects or critical hazards.
Inhalation:	No known significant effects or critical hazards.
Skin contact:	No known significant effects or critical hazards.
Ingestion:	No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact:	No specific data.
Inhalation:	No specific data.
Skin contact:	No specific data.
Ingestion:	No specific data.

### Delayed and immediate effects and also chronic effects from short and long-term exposure

Short term exposure Potential immediate effects: Potential delayed effects:	Not available Not available
Long term exposure Potential immediate effects: Potential delayed effects:	Not available Not available
Potential chronic health effects	Not available
General: Carcinogenicity: Mutagenicity: Teratogenicity: Developmental effects: Fertility effects:	No known significant effects or critical hazards. No known significant effects or critical hazards.
nerical measures of toxicity	

### Numerical measures of toxicity Acute toxicity estimates

Not available.

### **SECTION 12: Ecological Information**

Тох	ici	ty

Product / ingredient name	Result	Species	Exposure
Disodium hydrogenorthophosphate	Acute LC50 3580000 ug/l Fresh	Daphnia – Daphnia magna	48 hours
	water		

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product / ingredient name	LogPow	BCF	Potential
Disodium hydrogenorthophosphate	-5.8	-	Low

#### Mobility in soil

### Soil / water partition coefficient

Not available.

#### Other adverse effects

No known significant effects or critical hazards.

### **SECTION 13: Disposal Considerations**

#### Disposal methods

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport Information**

	DOT Classification	ΙΑΤΑ	
UN Number	Not regulated	Not regulated	
UN Proper shipping name	-	-	
Transport hazard class(es)	-	-	
Packing group	-	-	
Environmental hazards	No	No	
Additional information	-	-	

#### Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not available.

### **SECTION 15: Regulatory Information**

US Federal Regulations TSCA 8(a) CDR Exempt/Partial exemption: United States inventory (TSCA 8b):	Not determined All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs):	Not listed
Clean Air Act Section 602 Class I Substances:	Not listed
Clean Air Act Section 602 Class II Substances:	Not listed
DEA List I Chemicals (Precursor Chemicals):	Not listed
DEA List II Chemicals (Essential Chemicals):	Not listed

#### SARA 302/304

#### Composition / Information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA	304 RQ
			(lbs)	(gallons)	(lbs)	(gallons)
Sodium azide	0 – 0.1	Yes.	500	-	1000	-

#### SARA 304 RQ: 1111111.1 lbs / 504444.4 kg

#### SARA 311/312

Classification: Not applicable.

Composition / information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Disodium hydrogenorthophosphate	0.1 – 1	No.	No.	No.	Yes.	No.

### S

State regulations Massachusetts: New York: New Jersey: Pennsylvania: Canada inventory:	The following components are listed: PHOSPHORIC ACID, DISODIUM SALT The following components are listed: Sodium phosphate, dibasic The following components are listed: SODIUM PHOSPHATE, DIBASIC; PHOSPHORIC ACID, DISODIUM SALT The following components are listed: PHOSPHORIC ACID, DISODIUM SALT All components are listed or exempted.			
International regulations International lists Australia inventory (AICS): China inventory (IECSC): Japan inventory: Korea inventory: Malaysia Inventory (EHS Re New Zealand Inventory of Chemicals (NZIoC): Philippines inventory (PICC) Taiwan inventory (CSNN):	All components All components All components egister): Not determined. All components	are listed or exempted. are listed or exempted.		
Chemical Weapons Convention List	Schedule I Chemicals:	Not listed		
Chemical Weapons Convention List	Schedule II Chemicals:	Not listed		
Chemical Weapons Convention List	Schedule III Chemicals:	Not listed		

## **SECTION 16: Other Information**

Hazardous Material Information System (USA)	
Health:	0
Chronic Health Hazard:	
Flammability:	0
Physical hazards:	0
National Fire Protection Association (USA)	
Health:	0
Flammability:	0
Instability / Reactivity:	0
Special:	

#### **Disclaimer:**

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It does not represent any guarantee of the properties of the product. Cepham Life Sciences Incorporated and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.