# SAFETY DATA SHEET



Revision Date 26-Dec-2023 WAI1 - AGHS - OSHA Revision Number 11

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Identifier** 

Product Name pH 7.00 Buffer

Product No 910107

Pure substance/mixture Mixture

Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Use as laboratory reagent

Uses advised against No Information available

Manufacturer, Importer, Supplier Thermo Fisher Scientific©

Water and Lab Products

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Made in USA

# 2. HAZARDS IDENTIFICATION

#### Classification

### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/Irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity - (repeated exposure)	Category 2

#### **Label Elements**

### **Emergency Overview**

### Warning

### **Hazard Statements**

Causes skin irritation

Causes serious eye irritation

May cause damage to organs through prolonged or repeated exposure



Appearance Light yellow

Physical State Liquid

Odor None

## **Precautionary Statements**

#### Prevention

Wear protective gloves/protective clothing/eye protection/face protection Wash face, hands and any exposed skin thoroughly after handling Do not breathe dust/fume/gas/mist/vapors/spray Avoid release to the environment

### **Eyes**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

#### Skin

IF ON SKIN: Gently wash with plenty of soap and water If skin irritation occurs: Get medical advice/attention

#### Storage

Store in a closed container

### Disposal

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

No information available

#### Other Information

Harmful to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No	Weight %
Water	7732-18-5	>90.0%
Sodium Phosphate, Dibasic	7558-79-4	0.1 - 1.0%
Potassium Dihydrogen Phosphate	7778-77-0	0.1 - 1.0%
5-Bromo-5-Nitro-1,3-Dioxane	30007-47-7	0.1 - 1.0%
FD & C Yellow #5	1934-21-0	<0.1%

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### **Description of first aid measures**

General Advice Use first aid treatment according to the nature of the injury. Get medical attention

immediately if symptoms occur. Show this safety data sheet to the doctor in attendance.

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** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Get medical attention if

symptoms occur.

**Self-Protection of the First Aider** No special precautions required.

Most important symptoms and effects, both acute and delayed

Most important symptoms and

effects

None reasonably foreseeable

#### Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically

### 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

#### **Unsuitable Extinguishing Media**

No information available

### Specific Hazards Arising from the Chemical

No information available.

**Explosion Data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None

### **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.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal Precautions, Protective Equipment and Emergency Procedures

Personal Precautions Ensure adequate ventilation. Use personal protective equipment as required.

**Environmental Precautions** Should not be released into the environment. See Section 12 for additional Ecological

Information. Vapors may accumulate to form explosive concentrations.

#### Methods and Material for Containment and Cleaning Up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### **Precautions for Safe Handling**

**Handling** Wear personal protective equipment/face protection

Ensure adequate ventilation

Avoid contact with skin, eyes or clothing

Avoid ingestion and inhalation

## Conditions for Safe Storage, Including any Incompatibilities

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

Store at room temperature in the original container

Protect from direct sunlight

Incompatible Products No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines** This product does not contain any hazardous materials with occupational exposure

limits established by the region specific regulatory bodies.

**Appropriate engineering controls** 

Engineering Measures None under normal use conditions

Individual protection measures, such as personal protective equipment

**Eyelface Protection** Wear chemical splash goggles and face shield. If splashes are likely to occur:. Face

protection shield.

**Skin and Body Protection** Wear protective gloves/protective clothing.

**Respiratory Protection**None under normal use conditions. In case of inadequate ventilation wear respiratory

protection.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid
Appearance Light yellow
Odor None

Odor Threshold No information available

**pH** 7.00 **PH Range** 5.8 - 8.2

<u>Property</u> <u>Values</u> <u>Remarks • Method</u>

Melting point/freezing point

Boiling Point/Range

No information available

~ 100 °C / 212 °F

Flash Point (High in °C) N/A

**Evaporation Rate**Flammability (solid, gas)
No information available
No information available

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor Density
Specific Gravity

No information available
No information available
No information available
No information available

Water Solubility Soluble

Solubility in other solvents

Partition coefficient

No information available
No information available

Autoignition Temperature

Decomposition TemperatureNo information availableKinematic viscosityNo information availableDynamic viscosityNo information availableExplosive PropertiesNo information availableOxidizing PropertiesNo information available

**Other Information** 

Softening Point
Molecular Weight
VOC Content(%)
Density
No information available

## 10. STABILITY AND REACTIVITY

#### Reactivity

No Information available

### **Chemical Stability**

Stable under normal conditions

#### **Possibility of Hazardous Reactions**

None under normal processing

#### **Conditions to Avoid**

Extremes of temperature and direct sunlight.

#### **Incompatible Materials**

No information available

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating gases and vapors.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

### **Product Information**

**Inhalation** No information available

Eye Contact Irritating to eyes

Skin Contact Irritating to skin

**Ingestion** No information available

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water 7732-18-5	LD50 > 90 mL/kg (Rat)	-	-
Sodium Phosphate, Dibasic 7558-79-4	LD50 = 17 g/kg (Rat)	-	-
Potassium Dihydrogen Phosphate 7778-77-0	LD50 = 3200 mg/kg (Rat)	-	LC50 > 0.83 mg/L (Rat) 4 h
5-Bromo-5-Nitro-1,3-Dioxane 30007-47-7	LD50 = 455 mg/kg (Rat)	-	-
FD & C Yellow #5 1934-21-0	LD50 > 2000 mg/kg (Rat)	-	-

### Information on Toxicological Effects

Symptoms No information available

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

Serious eye damage/eye irritation Irritating to eyes.

**Sensitization** No information available

Mutagenic Effects 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
Water	7732-18-5	Not listed	Not listed	Not listed	Not listed
Sodium Phosphate, Dibasic	7558-79-4	Not listed	Not listed	Not listed	Not listed
Potassium Dihydrogen	7778-77-0	Not listed	Not listed	Not listed	Not listed
Phosphate					
5-Bromo-5-Nitro-1,3-Dioxane	30007-47-7	Not listed	Not listed	Not listed	Not listed
FD & C Yellow #5	1934-21-0	Not listed	Not listed	Not listed	Not listed

Reproductive Effects No information available

STOT - single exposure No information available

STOT - repeated exposure Causes damage to organs through prolonged or repeated exposure

Target Organs None known.

Aspiration hazard No information available

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral) 38924 mg/kg

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

3.01% of the mixture consists of components(s) of unknown hazards to the aquatic environment

## Persistence and Degradability

### **Bioaccumulation/ Accumulation**

No information available

#### Mobility

Will likely be mobile in the environment due to its water solubility

Component	log Pow
5-Bromo-5-Nitro-1,3-Dioxane 30007-47-7	1.6
FD & C Yellow #5 1934-21-0	-1.572

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste Disposal Methods Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Improper disposal or reuse of this container may be dangerous and illegal

## 14. TRANSPORT INFORMATION

**DOT** Not regulated

<u>ICAO</u> Not regulated

IATA Not regulated

IMDG/IMO Not regulated

## 15. REGULATORY INFORMATION

**International Inventories** 

United States of America Inventory CANINV Complies Complies

EINECS/ELINCS Complies

**ENCS** Does not Comply

IECSCCompliesKECLCompliesPICCSCompliesAICSComplies

#### Legend:

USINV/ TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

CANINV/ DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japanese Existing and New Chemical Substances

**IECSC** - Chinese Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

### **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 any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

## SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (Clean Water Act)**

Component	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Sodium Phosphate, Dibasic	5000 lb	-	-	X
7558-79-4				

## **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355)

Component	Hazardous Substances RQs	CERCLA Extremely Hazardous Substances RQs	SARA Reportable Quantity (RQ)
Sodium Phosphate, Dibasic 7558-79-4	5000 lb	-	5000 lb 2270 kg

## **U.S. State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

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

Component	New Jersey	Massachusetts	Pennsylvania
Water 7732-18-5	-	-	X
Sodium Phosphate, Dibasic 7558-79-4	Х	X	X

#### U.S. EPA Label Information

No information available

## 16. OTHER INFORMATION

Prepared By Regulatory Affairs

Prepared For Thermo Fisher Scientific Inc.©

Issue Date No information available

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**Reason for revision** SDS sections updated.

#### Disclaimer

IMPORTANT: The information contained in this SDS is correct to the best of our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties of any kind as to the accuracy or completeness of the information contained herein or the merchantability or fitness of the product or this information for a particular purpose. It is the responsibility of each individual buyer/user to determine the suitability of this information and the product for its intended purposes. Product sales are subject to Thermo Fisher Scientifics standard terms and conditions of sale. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions, or is altered in any way. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable government requirements. Since conditions of use of the product are not under direct control of Thermo Fisher Scientific, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Thermo Fisher Scientific will not be liable for any injuries or damages resulting from handling, use, misuse or contact with the product.

**End of Safety Data Sheet**