

# SAFETY DATA SHEET

## ( SDS )

This safety data sheet complies with the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008, (EU) No. 453/2010

Revision Date 11-Sep-2024

WAI2 - EGHS - EUROPEAN

Revision Number 1

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

#### 1.1. Product Identifier

Product Name Eutech pH 10.01 Buffer Solution

Product No 01X608101  
Unique Formula Identifier (UFI) Not applicable

REACH registration number Not applicable

Pure substance/mixture Mixture

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use Use as laboratory reagent

Uses advised against No Information available

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

Manufacturer, Importer, Supplier Eutech Instruments Pte Ltd  
part of Thermo Fisher Scientific  
7 Gul Circle, #2M-01  
Keppel Logistics Building  
Singapore 629563

E-mail address [wlp.techsupport@thermofisher.com](mailto:wlp.techsupport@thermofisher.com)

Made in Singapore

1.4. Emergency telephone number 24 Hour Emergency Phone Number  
CHEMTREC®  
Within USA and Canada: 1-800-424-9300  
Outside USA and Canada: 1-703-527-3887  
(collect calls accepted)

**SECTION 2. HAZARDS IDENTIFICATION****2.1. Classification of the substance or mixture****Classification - Mixture****Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

**2.2. Label elements****Signal Word**

None

**Hazard Statements**

None

**Precautionary Statements****2.3. Other hazards****General Hazards**

This product does not contain any known or suspected endocrine disruptors  
Toxic to terrestrial vertebrates

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

Component	EC No	CAS No	Weight %	CLP Classification - Regulation (EC) No 1272/2008	REACH Reg. No
Water	EEC No. 231-791-2	7732-18-5	90 - 100%	Not classified	No information available
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	EEC No. 213-022-2	915-67-3	0 - 10%		No information available
Sodium bicarbonate	EEC No. 205-633-8	144-55-8	0 - 10%		No information available
Benzoic acid, 4-hydroxy-, methyl ester	EEC No. 202-785-7	99-76-3	0 - 10%		No information available
C.I. Acid Blue 9, disodium salt	EEC No. 223-339-8	3844-45-9	0 - 10%		No information available

Component	CAS No	Specific concentration limits (SCL's)	M-Factor	Component notes
Water	7732-18-5	-	-	-
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	915-67-3	-	-	-
Sodium bicarbonate	144-55-8	-	-	-
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	-	-	-
C.I. Acid Blue 9, disodium salt	3844-45-9	-	-	-

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

<b>General Advice</b>	Use first aid treatment according to the nature of the injury. For further assistance, contact your local Poison Control Center. Show this safety data sheet to the doctor in attendance.
<b>Eye Contact</b>	In case of eye contact, remove contact lens and rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
<b>Inhalation</b>	Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention if symptoms occur.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Do NOT induce vomiting. Call a physician or poison control center immediately.
<b>Self-Protection of the First Aider</b>	No special precautions required.

### 4.2. Most important symptoms and effects, both acute and delayed

<b>Most important symptoms and effects</b>	See section 11, See section 2 for more information
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### 4.3. Indication of any immediate medical attention and special treatment needed

<b>Notes to Physician</b>	Treat symptomatically
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## SECTION 5: FIREFIGHTING MEASURES

### 5.1. Extinguishing media

#### Suitable Extinguishing Media

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

#### Unsuitable Extinguishing Media

No information available

### 5.2. Special hazards arising from the substance or mixture

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

### 5.3. Advice for firefighters

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

## SECTION 6: ACCIDENTAL RELEASE MEASURES

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

<b>Personal Precautions</b>	Use personal protective equipment as required. Evacuate personnel to safe areas.
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### 6.2. Environmental precautions

<b>Environmental Precautions</b>	Should not be released into the environment. Collect spillage. Dispose of waste product or used containers according to local regulations.
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**6.3. 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.

**Reference to Other Sections**

Refer to protective measures listed in Sections 7 and 8

See Section 8 for information on appropriate personal protective equipment

See Section 12 for additional Ecological Information

See Section 13 for additional waste treatment information

**SECTION 7: HANDLING AND STORAGE****7.1. Precautions for safe handling****Advice on safe handling**

To avoid risks to human health and the environment, comply with the instructions for use. Wear personal protective equipment/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Ensure adequate ventilation, especially in confined areas.

**General hygiene considerations**

Handle in accordance with good industrial hygiene and safety practice.

**7.2. Conditions for safe storage, including any incompatibilities****Storage Conditions**

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Protect from direct sunlight.

**7.3. Specific end use(s)****Specific Use(s)**

Use as laboratory reagent

**Risk Management Methods (RMM)**

The information required is contained in this Safety Data Sheet.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters****Exposure limits**

List source(s): **CH** - The Government of Switzerland has set a directive on limit values for working materials (Grenzwerte am Arbeitsplatz) which is based on the Swiss Federal Regulation "Verordnung über die Verhütung von Unfällen und Berufskrankheiten". This directive is administered, periodically revised and enforced by SUVA (Swiss National Accident Insurance Fund).

Component	Bulgaria	Croatia	Ireland	Cyprus	Czech Republic
Sodium bicarbonate					TWA: 5 mg/m <sup>3</sup> 8 hodinách. Ceiling: 10 mg/m <sup>3</sup>

Component	Latvia	Lithuania	Luxembourg	Malta	Romania
Sodium bicarbonate	TWA: 5 mg/m <sup>3</sup>				

Component	Russia	Slovak Republic	Slovenia	Sweden	Turkey
Sodium bicarbonate	MAC: 5 mg/m <sup>3</sup>				
Benzoic acid,	MAC: 4 mg/m <sup>3</sup>				

4-hydroxy-, methyl ester					
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**Biological limit values**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies

**Monitoring methods**

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

**Derived No Effect Level (DNEL)**

See table for values

Component	Acute effects local (Dermal)	Acute effects systemic (Dermal)	Chronic effects local (Dermal)	Chronic effects systemic (Dermal)
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )				DNEL = 9.8mg/kg bw/day

Component	Acute effects local (Inhalation)	Acute effects systemic (Inhalation)	Chronic effects local (Inhalation)	Chronic effects systemic (Inhalation)
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )				DNEL = 58.76mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC)**

See values below.

Component	Fresh water	Fresh water sediment	Water Intermittent	Microorganisms in sewage treatment	Soil (Agriculture)
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )	PNEC = 2.4µg/L	PNEC = 63.2µg/kg sediment dw	PNEC = 0.112mg/L	PNEC = 2mg/L	PNEC = 11.5µg/kg soil dw

Component	Marine water	Marine water sediment	Marine water Intermittent	Food chain	Air
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )	PNEC = 0.24µg/L	PNEC = 6.32µg/kg sediment dw			

**8.2. Exposure controls****Engineering Measures**

None under normal use conditions

**Personal protective equipment****Eye/face Protection**

Wear chemical splash goggles and face shield. If splashes are likely to occur:. Goggles.

**Skin and body protection**

Wear protective gloves/protective clothing.

**Respiratory Protection****Recommended Filter type:**

No protective equipment is needed under normal use conditions.  
Particle filter.

Environmental exposure controls No information available

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Physical State	Liquid
Appearance	Blue
Odor	Odorless
Odor Threshold	No information available
PH Range	10.01 @25 °C

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
Melting point/freezing point	No information available	
Boiling Point/Range	~ 100 °C	
Flash Point (High in °C)	No information available	
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit:	No information available	
Lower flammability limit:	No information available	
Vapor pressure	No information available	
Vapor Density	No information available	
Specific Gravity	No information available	
Water Solubility	Soluble	
Solubility in other solvents	No information available	
Partition coefficient	No information available	
Autoignition Temperature	-	
Decomposition Temperature	No information available	
Kinematic viscosity	No information available	
Dynamic viscosity	No information available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

**9.2. Other information**

Softening Point	No information available
Molecular Weight	No information available
VOC Content(%)	No information available
Density	1.0 g/cm <sup>3</sup> @25°C
Bulk Density	No information available

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

No information available

**10.2. Chemical stability**

Stable under normal conditions

**Explosion Data**

Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None

**10.3. Possibility of hazardous reactions**

None under normal processing

**10.4. Conditions to avoid**

Extremes of temperature and direct sunlight

**10.5. Incompatible materials**

No information available

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to release of irritating gases and vapors

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008****Product Information****Acute Toxicity**

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Water	LD50 > 90 mL/kg ( Rat )		
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	LD50 = 6 g/kg ( Rat )		
Sodium bicarbonate	LD50 = 4220 mg/kg ( Rat )		
C.I. Acid Blue 9, disodium salt	LD50 > 1900 mg/kg ( Rat )		

**Skin Corrosion/Irritation** No information available**Serious eye damage/eye irritation** No information available**Sensitization** No information available**Mutagenic Effects** No information available**Carcinogenic effects** No information available**Reproductive Effects** No information available**(h) STOT-single exposure;** No data available**(i) STOT-repeated exposure;** No data available**Target Organs** None known.**Aspiration hazard** No information available**11.2. Information on other hazards****Endocrine Disrupting Properties** Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

Component	EU National Authorities Endocrine Disruptor Lists - Health
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )	List II

**SECTION 12. ECOLOGICAL INFORMATION****12.1. Toxicity**

Ecotoxicity effects

Component	Freshwater Algae	Freshwater Fish	Water Flea
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Sodium bicarbonate	-	LC50: 8250 - 9000 mg/L, 96h static (Lepomis macrochirus)	EC50: = 2350 mg/L, 48h (Daphnia magna)
Benzoic acid, 4-hydroxy-, methyl ester	-	LC50: = 59.5 mg/L, 96h semi-static (Oryzias latipes)	-

**12.2. Persistence and degradability****12.3. Bioaccumulative potential**

Component	log Pow	Bioconcentration factor (BCF)
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	-5.13	No data available
C.I. Acid Blue 9, disodium salt	<-6.4	No data available

**12.4. Mobility in soil**

Component	log Pow
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt 915-67-3 ( 0 - 10% )	-5.13
C.I. Acid Blue 9, disodium salt 3844-45-9 ( 0 - 10% )	<-6.4

**12.5. Results of PBT and vPvB assessment**

No information available

**12.6. Endocrine disrupting properties**

This product does not contain any known or suspected endocrine disruptors

**12.7. Other adverse effects****Persistent Organic Pollutant**

This product does not contain any known or suspected substance

**Ozone Depletion Potential**

This product does not contain any known or suspected substance

**SECTION 13. DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Waste from Residues/Unused Products**

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.

**SECTION 14: TRANSPORT INFORMATION****IMDG/IMO**

<b>14.1 UN-No</b>	Not Regulated
<b>14.2 Proper Shipping Name</b>	Not Regulated
<b>14.3 Hazard Class</b>	Not Regulated
<b>14.4 Packing Group</b>	Not Regulated
<b>14.5 Marine Pollutant</b>	Not Applicable
<b>14.6 Special Provisions</b>	None
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	No information available



**ADR**

14.1. UN number	Not Regulated
14.2. UN proper shipping name	Not Regulated
14.3. Transport hazard class(es)	Not Regulated
14.4. Packing group	Not Regulated

**ICAO**

14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None

**IATA**

14.1 UN-No	Not Regulated
14.2 Proper Shipping Name	Not Regulated
14.3 Hazard Class	Not Regulated
14.4 Packing Group	Not Regulated
14.5 Environmental hazard	Not Applicable
14.6 Special Provisions	None

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

Europe (EINECS/ELINCS/NLP), China (IECSC), Taiwan (TCSI), Korea (KECL), Japan (ENCS), Japan (ISHL), Canada (DSL/NDSL), Australia (AICS), New Zealand (NZIoC), Philippines (PICCS), U.S.A. (TSCA).

Component	CAS No	EINECS	ELINCS	NLP	IECSC	TCSI	KECL	ENCS	ISHL
Water	7732-18-5	231-791-2	-	-	X	X	KE-35400	X	-
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	915-67-3	213-022-2	-	-	X	X	KE-20344	X	X
Sodium bicarbonate	144-55-8	205-633-8	-	-	X	X	KE-31360	X	X
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	202-785-7	-	-	X	X	KE-20379	X	X
C.I. Acid Blue 9, disodium salt	3844-45-9	223-339-8	-	-	X	X	KE-13703	X	X

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	DSL	NDSL	AICS	NZIoC	PICCS
Water	7732-18-5	X	ACTIVE	X	-	X	X	X
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	915-67-3	X	ACTIVE	X	-	X	X	X
Sodium bicarbonate	144-55-8	X	ACTIVE	X	-	X	X	X
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	X	ACTIVE	X	-	X	X	X
C.I. Acid Blue 9, disodium salt	3844-45-9	X	ACTIVE	X	-	X	X	X

**Legend:** X - Listed '-' - Not Listed

**KECL** - NIER number or KE number (<http://ncis.nier.go.kr/en/main.do>)

**European Union**

## Authorisation/Restrictions according to EU REACH

Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	REACH (1907/2006) - Annex XVII - Restrictions on Certain Dangerous Substances	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
Water	7732-18-5	-	-	-
2,7-Naphthalenedisulfonic acid, 3-hydroxy-4-[(4-sulfo-1-naphthalenyl)azo]-, trisodium salt	915-67-3	-	Use restricted. See entry 75. (see link for restriction details)	-
Sodium bicarbonate	144-55-8	-	-	-
Benzoic acid, 4-hydroxy-, methyl ester	99-76-3	-	-	-
C.I. Acid Blue 9, disodium salt	3844-45-9	-	-	-

## Regulation (EC) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of dangerous chemicals

Not applicable

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

## National Regulations

UK - Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

## WGK Classification

Water endangering class = 1 (self classification)

Component	Germany - Water Classification (AwSV)
Sodium bicarbonate 144-55-8 ( 0 - 10% )	WGK1
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )	WGK1
C.I. Acid Blue 9, disodium salt 3844-45-9 ( 0 - 10% )	WGK1

## Swiss Regulations

Article 4 para. 4 of the Ordinance on the protection of young people in the workplace (SR 822.115) and Article 1 lit. f of the EAER regulation on hazardous work and young people (SR 822.115.2).

Take note on Article 13 Maternity Ordinance (SR 822.111.52) with regards expectant and nursing mothers.

Component	Switzerland - Ordinance on the Reduction of Risk from handling of hazardous substances preparation (SR 814.81)	Switzerland - Ordinance on Incentive Taxes on Volatile Organic Compounds (OVOC)	Switzerland - Ordinance of the Rotterdam Convention on the Prior Informed Consent Procedure
Benzoic acid, 4-hydroxy-, methyl ester 99-76-3 ( 0 - 10% )	Prohibited and Restricted Substances		
C.I. Acid Blue 9, disodium salt 3844-45-9 ( 0 - 10% )	Prohibited and Restricted Substances		

## 15.2. Chemical safety assessment

A Chemical safety assessment according to regulation (EC) No. 1907/2006 is not required

**SECTION 16: OTHER INFORMATION****Full text of H-Statements referred to under sections 2 and 3**

H319 - Causes serious eye irritation

**Key or legend to abbreviations and acronyms used in the safety data sheet****CAS** - Chemical Abstracts Service**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**IECSC** - Chinese Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**ENCS** - Japanese Existing and New Chemical Substances**AICS** - Australian Inventory of Chemical Substances**NZIoC** - New Zealand Inventory of Chemicals**WEL** - Workplace Exposure Limit**ACGIH** - American Conference of Governmental Industrial Hygienists**DNEL** - Derived No Effect Level**RPE** - Respiratory Protective Equipment**LC50** - Lethal Concentration 50%**NOEC** - No Observed Effect Concentration**PBT** - Persistent, Bioaccumulative, Toxic**TWA** - Time Weighted Average**IARC** - International Agency for Research on Cancer Predicted No Effect Concentration (PNEC)**LD50** - Lethal Dose 50%**EC50** - Effective Concentration 50%**POW** - Partition coefficient Octanol:Water**vPvB** - very Persistent, very Bioaccumulative**ADR** - European Agreement Concerning the International Carriage of Dangerous Goods by Road**IMO/MDG** - International Maritime Organization/International Maritime Dangerous Goods Code**OECD** - Organisation for Economic Co-operation and Development**BCF** - Bioconcentration factor**TWA** TWA (time-weighted average)**Ceiling** Maximum limit value**ICAO/IATA** - International Civil Aviation Organization/International Air Transport Association**MARPOL** - International Convention for the Prevention of Pollution from Ships**ATE** - Acute Toxicity Estimate**VOC** - (volatile organic compound)**STEL** STEL (Short Term Exposure Limit)**Key literature references and sources for data**<https://echa.europa.eu/information-on-chemicals>

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

**Prepared By** Regulatory Affairs**Prepared For** Thermo Fisher Scientific Inc.**Issue Date** No information available**Revision Date** 11-Sep-2024**Reason for revision** SDS sections updated.**Training Advice** Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

**This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.  
COMMISSION REGULATION (EU) 2020/878 amending Annex II to Regulation (EC) No  
1907/2006 .**

**Disclaimer**

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**End of Safety Data Sheet**