

## SAFETY DATA SHEET


### EC-BU-918BT (pH 9.18 Buffer Solution)

Last updated on 7<sup>th</sup> December 2012

#### 1. PRODUCT IDENTIFICATION AND COMPANY INFORMATIONS

Product Name:	pH 9.18 Buffer Solution
Product Number:	01X211271
Chemical Family:	Mixture of organic and inorganic compounds
Company Informations:	EUTECH INSTRUMENTS PTE LTD. THERMO FISHER SCIENTIFIC Blk 55, Ayer Rajah Crescent, #04-16/24, Singapore 139949, Website: <a href="http://www.eutechinst.com">http://www.eutechinst.com</a> E-mail: <a href="mailto:eutech@thermofisher.com">eutech@thermofisher.com</a>
Telephone No:	(65) 6778 6876
Fax No:	(65) 6773 0836
Product Use:	Laboratory and Industrial Reagent for analysis

#### 2. HAZARD IDENTIFICATION

Classification of the substance or mixture:	
Classification according to Regulation (EC) No 1272/2008	Reproductive toxicity (Category 2)
Classification according to Directive 67/548/EEC or Directive 1999/45/EC	May impair fertility. May cause harm to the unborn child.
Label elements: Labeling: according Regulation (EC) No 1272/2008 [CLP], Pictogram and Signal word	 , Danger
Hazard statement(s) H360	May damage fertility. May damage the unborn child.
Precautionary statement(s) P201 P308 + P313	Obtain special instructions before use. IF exposed or concerned: Get medical advice/ attention.

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Mixtures		
Formula :	Mixture of inorganic compounds	
components:		
CAS: 1303-96-4, EC-No:215-540-4 Formula : $\text{Na}_2\text{B}_4\text{O}_7 \cdot 10\text{H}_2\text{O}$	Disodium tetraborate decahydrate Reproductive toxicants.Cat.1B, H360, R60 -R61	< 0.4 %
CAS: 7732-18-5	Deionized water	>99.6 %

#### 4. FIRST AID MEASURES

Description of first aid measures:	
General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance
After inhalation:	If breathed in, move person into fresh air. If not breathing,

	give artificial respiration. Consult a physician.
After skin contact:	Wash off with soap and plenty of water. Consult a physician.
After eye contact:	Flush eyes with water as a precaution.
After swallowing:	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

## 5. FIRE FIGHTING MEASURES

Extinguishing media:	
Suitable extinguishing agents:	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Special hazards arising from the substance or mixture	Nature of decomposition products not known
Advice for firefighters	
Protective equipment:	Wear self contained breathing apparatus for fire fighting if necessary.
Further information	no data available.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
Environmental precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
Methods and material for containment and cleaning up:	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

Precautions for safe handling	Avoid exposure -obtain special instructions before use.Avoid inhalation of vapour or mist. .
Conditions for safe storage, including any incompatibilities	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

## 8. EXPOSURE CONTROLS/PERSIONAL PROTECTION

Control parameters:	
Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal Protective Equipment:	
Eye/face protection	Safety glasses with side-shields. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry

	hands.
Body Protection:	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Liquid, Colour- colourless
Odor:	Odourless
Odour threshold:	No data available
pH-value:	9.2 at 25 °C
Melting point/Freezing point:	No data available
Boiling point/Boiling range:	~100 °C
Flash point:	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower Explosion limits:	No data available
Upper Explosion limits:	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density:	1,000 g/cm <sup>3</sup> at 20 °C
Water solubility	No data available
Partition coefficient: octanol/water	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other information	No further relevant information available

## 10. STABILITY AND REACTIVITY

Reactivity	No data available
Chemical stability	No data available
Possibility of hazardous reactions	No data available
Conditions to avoid	No data available
Incompatible materials	Potassium, Acid anhydrides
Hazardous decomposition products	Other decomposition products -no data available

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity	No data available
Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitization	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	

IARC:	No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity -single exposure	No data available
Specific target organ toxicity -repeated exposure	No data available
Aspiration hazard	No data available
Potential health effects	
Inhalation Ingestion Skin Eyes	May be harmful if inhaled. May cause respiratory tract irritation. May be harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation.
Signs and Symptoms of Exposure	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated

## 12. ECOLOGICAL INFORMATION

Toxicity:	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No further relevant information available.

## 13. DISPOSAL CONSIDERATION

Waste treatment methods Product:	Offer surplus and non-recyclable solutions to a licensed disposal company
Contaminated packaging:	Dispose of as unused product

## 14. TRANSPORT INFORMATION

UN-Number ADR/RID, IMDG, IATA	Not regulated
UN proper shipping name · ADR, ADN, IMDG, IATA	Not regulated
Transport hazard class(es) ADR/RID, IMDG, IATA	Not dangerous goods
Packing group ADR, IMDG, IATA	Not regulated
Environmental hazards- Marine pollutant:	No
Special precautions for user	No data available

## 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.	
Safety, health and environmental regulations/legislation specific for the	No data available

substance or mixture	
National regulations- Information about limitation of use:	Not required.
Chemical safety assessment:	A chemical safety assessment has not been carried out.

## 16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Company will not be held liable for any damage resulting from handling or from contact with the above product.

Relevant phrase:

H360 May damage fertility. May damage the unborn child.

R60 May impair fertility.

R61 May cause harm to the unborn child.

Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Transport of Dangerous Goods by Rail

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

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