

## MATERIAL SAFETY DATA SHEET

### ECBU9BT (pH 9.00 Buffer Solution)

Last updated on 22<sup>nd</sup> July 2011

#### 1. PRODUCT IDENTIFICATION AND COMPANY INFORMATIONS

Product Name:	pH 9.00 Buffer Solution
Product Number:	ECBU9BT
Chemical Family:	Inorganic Salts
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

#### 2. HAZARD IDENTIFICATION

Chronic Effects/ Carcinogenicity:	None
IARC	No
NTP	No
OSHA	No
NFPA ratings:	Health: 1, Flammability: 0, Reactivity: 0
HMIS ratings:	Health: 1, Flammability: 0, Reactivity: 0

#### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Component : Sodium Borate	
CAS NO:	1303-96-4
WEIGHT:	<1.1 %
LD50mg/kg:	2,660 (Oral-rat)
Component : 2M Hydrochloric acid	
CAS NO:	7647-01-0
WEIGHT:	<0.2%
OSHA PEL:	Not Available
Component : Water, Deionized	
CAS NO:	7732-18-5
WEIGHT:	Balance
OSHA PEL:	Not Available
ACGIH TLV:	Not Available

#### 4. FIRST AID MEASURES

Inhalation:	Remove to fresh air. Give artificial respiration if necessary. If breathing is difficult, give oxygen.
Skin Contact:	Wash areas of contact with water for at least 15 minutes. Call a physician if irritation develops.
Eye Contact:	Irrigate immediately with large quantity of water for at least 15 minutes. Call a physician if irritation develops.
Ingestion:	Dilute with water or milk. Do not induce vomiting. Call a physician if necessary.

#### 5. FIRE FIGHTING MEASURES

Extinguishing media:	Use any means suitable for extinguishing surrounding fire.
Fire and Explosion Hazards:	Not considered to be a fire or explosion hazard.
Fire Fighting Instructions:	Use normal procedures/instructions.
Fire Fighting equipment:	Use protective clothing and breathing equipment appropriate for the surrounding fire. Water and CO <sub>2</sub> can be used as extinguishing media.

#### 6. ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:	Wear chemical safety goggles, Cover shoes and rubber gloves.
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:	Avoid contact with eyes and skin. As with all chemicals wash hands thoroughly after handling. Protect from freezing and physical damage.
Storage:	Avoid heat and flame, Keep container tightly closed. Store in a cool dry place.

#### 8. EXPOSURE CONTROLS/PERSIONAL PROTECTION

Engineering controls:	Safety shower and eye bath. Mechanical exhaust required.
General hygiene measures	Wash thoroughly after handling. Wash contaminated clothing before reuse.
Personal Protective Equipment:	
Respiratory protection:	Normal room ventilation is adequate.
Skin protection:	Chemical resistant gloves and lab coat
Eye protection:	Safety glasses or goggles.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Clear, colorless liquid
Odor:	Odorless
pH:	9
Boiling point (deg C):	101
Melting point (deg C):	Not determined
Solubility in water:	Soluble
Specific gravity:	1.0
Vapor Pressure:	NA
Flash point:	NA
Evaporation rate:	NA
Decomposition temperature:	NA
Part ion coefficient:	NA
Vapor density:	NA

**10. STABILITY AND REACTIVITY**

Chemical stability:	Stable under normal conditions of use and storage.
Incompatibility:	Strong oxidizers
Hazardous decomposition products:	When heated it decomposes and emit toxic fumes of Na <sub>2</sub> O
Hazardous polymerization:	Will not occur
Teratogen status:	Mutation data cited for Sodium Borate salt.
Reproductive Toxicity:	Reproductive effect cited in "Registry of Toxic Effects of Chemical Substances" for Sodium Borate

**11. TOXICOLOGICAL INFORMATION**

Route of exposure:	
Skin contact:	May cause skin irritation.
Eye contact:	May cause eye irritation.
Multiple routes:	May be harmful by inhalation, ingestion or skin absorption.

**12. ECOLOGICAL INFORMATION**

Ecotoxicity:	No information found
Bioaccumulative potential:	No information found
Persistence and degradability:	No information found

**13. DISPOSAL CONSIDERATION**

Disposal:	Dispose of in accordance with local, state and federal regulation.
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**14. TRANSPORT INFORMATION**

RID/ADR:	Non- hazardous for road transport
IMDG:	Non- hazardous for road transport
IATA:	Non- hazardous for road transport
Regulated Product:	This product is not regulated.

**15. REGULATORY INFORMATION**

WHMIS:	Not controlled under WHMIS
DSCL(EEC):R36/38	Irritating to eyes and skin
Directive 67/548/EEC	Not hazardous

**16. OTHER INFORMATION**

This information is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability, or fitness for any particular use, or any other warranty, express or implied, with respect to this information, and we assume no liability resulting from the use of this information. Users should make their own investigations to determine the suitability of the information for their particular needs and purposes.

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