

MATERIAL SAFETY DATA SHEET

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

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SITE SPECIFIC INFORMATION

No site specific information.

PRODUCT IDENTIFICATION

Product Name:	pH 9.18 Buffer Solution
Common Synonyms:	Nil
Chemical Family:	Inorganic Salts
Formula:	Complex
Formula Weight:	NA
CAS No:	NA
Niosh / Rtec No:	NA
Product Use:	Laboratory and Industrial Reagent
Eutech SAF-T-Data System:	Health = 1, Flammability = 0, Reactivity = 0, Contact = 0

SAFETY

For laboratory and industrial use only. Not for internal consumption. Avoid contact with eyes and skin

Component A: Sodium Tetraborate Decahydrate (Na ₂ B ₄ O ₇ .10H ₂ O)	
CAS NO:	1330-43-4
WEIGHT:	<1%
OSHA/PEL:	NE
ACGIH/TLV:	NE

PHYSICAL DATA

Appearance & Odor:	Odorless
Physical State:	Liquid
Boiling Point:	100°C
Vapour Pressure (kPa):	2.3Kpa (@20°C) (Water)
Melting Point:	NA
Vapour Density (Air=1):	0.62 (Air = 1) (Water)
Specific Gravity:	1
% Volatiles by Volume:	0
Solubility:	Easily soluble in cold & hot water. Partially soluble in methanol
pH:	9.18
Odor Threshold (ppm):	NA
Coefficient Water/Oil Distribution:	1
Evaporation Rate:	NA

FIRE AND EXPLOSION DATA

Flash Point (Close Cup):	NA
Auto ignition Temperature:	NA
Flammable Limits:	Upper, NA Lower, NA
Fire Extinguishing Media:	NA
Special Fire-fighting procedures:	Na
Unusual Fire and Explosion Hazards:	None
Toxic Gases produced:	None
Explosion data-sensitivity to mechanical impact:	None identified.
Explosion data-sensitivity to static discharge:	None identified.

HEALTH HAZARD DATA

Threshold limit value (TLV/TWWA):	Sodium borate TWA: 0.31
Toxicity of Components:	Not established
Carcinogenicity:	NA
Reproductive effects:	None identified.
Effects of overexposure:	
Inhalation:	None
Skin contact:	Slight skin irritant
Eye contact:	None
Skin absorption:	None
Ingestion:	Ingestion of 5-10grams has produced severe vomiting, diarrhea, shock and death. (Sodium borate)
Chronic effects:	Not identified.
Target organs:	Lungs, mucous membranes
Medical condition aggravated by exposure:	Nil
Primary routes of entry:	Absorbed through skin. Eye contact. Inhalation. Ingestion

EMERGENCY AND FIRST-AID PROCEDURES

Ingestion :	Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as collar, tie, belt or waistband,
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Skin contact:	Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops.
Eye contact:	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
Potential Acute health effects:	Hazardous in case of inhalation. Slightly hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion. Non-corrosive for skin
Potential Chronic Health Effects:	Non-corrosive for skin. Non-irritant for Skin. Non-sensitizer for skin. Non-permeator by skin. Non-irritating to the eyes. Non-hazardous in case of ingestion. Non-hazardous in case of inhalation.
Flammability:	Non-flammable
Pressure:	No
Reactivity:	NA
Extremely hazardous substance:	No
Toxic chemicals:	None
TSCA Inventory:	No

REACTIVITY DATA

Stability:	Stable
Condition to avoid:	Humidity
Incompatibles:	Nil
Decomposition products:	Nil
Hazardous polymerization:	Will not occur

SPILL AND DISPOSAL PROCEDURES

Steps to be taken in the events of a spill or discharge:	Small Spill: Dilute with water and mop up, or absorb with an inert dry material and place in an appropriate waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements. Large Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the concentration level above TLV. Check TLV on the MSDS and with local authorities.
Disposal procedure:	Dispose in accordance with all applicable federal, state and local environmental regulations.
Ventilation:	Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value
Respiratory protection:	None
Eye/Skin protection:	Safety glasses. Lab coat.

STORAGE AND HANDLING PRECAUTIONS

SAF-T-Data*Storage colour code:	Orange.
Storage requirements:	Keep container tightly closed. Keep in cool & well ventilated area

TRANSPORTATION DATA AND ADDITIONAL INFORMATION

Domestic (D.O.T.)

Proper shipping name:	Chemicals, N.O.S. (non-regulated)
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International (I.M.O.)

Proper shipping name:	Chemicals, N.O.S. (non-regulated)
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Marine pollutants:	Base
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Air (I.C.A.O.)

Proper shipping name:	Chemicals, N.O.S. (non-regulated)
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