

MATERIAL SAFETY DATA SHEET

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(1-800-424-9300 24 Hr. CHEMTREC/ CODE: RANA)

SECTION 1-Product Identification

Product Name: Buffer Solution pH 4

Synonyms:

Part Number: 9210012

SECTION 2-Composition/Information on Ingredients

Ingredient(s)	CAS #	Percent	Hazardous
Water	7732-18-5	99	no
Sodium Citrate	877-24-7	1	no

SECTION 3-Hazards Identification

Health Rating: 1
Flammability Rating: 0
Reactivity Rating: 0

Lab Protective Equip: gloves, safety goggles

SECTION 4-First Aid Measures

INHALATION: No known effects, remove to fresh air if necessary.
INGESTION: Dilute with water. Seek medical attention
SKIN CONTACT: Wash with soap and water for 15 minutes.
EYE CONTACT: Flush with water for at least 15 minutes.

SECTION 5-Fire Fighting Measures

Fire: Not Combustible
Explosion: N/A
Fire Extinguishing Media: Fight Surrounding Fire
Special Information: N/A

SECTION 6-Accidental Release Measures

Rinse area with water; mop. Dispose in accordance with federal, state and local regulations.

SECTION 7-Handling and Storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area.

SECTION 8-Exposure Controls/Personal Protection

Airborne Exposure Limits: N/A

Ventilation System: Normal room ventilation is generally adequate.
Personal Respirators (NIOSH Approved): N/A
Skin Protection: Gloves
Eye Protection: Use safety glasses or goggles.

SECTION 9-Physical and Chemical Properties

Appearance: Clear, colorless liquid (although some pH buffers are dyed red)
Odor: Odorless
Solubility: 100% Soluble
Specific Gravity: 1.01
pH: 4
Boiling Point: Approximately 100-101°C
Melting Point: N/A
Vapor Density (Air=1): N/A
Vapor Pressure (mm Hg): N/E
Evaporation Rate (BuAc=1): N/E

SECTION 10-Stability and Reactivity

Stability: Stable
Hazardous Decomposition Products: carbon monoxide and carbon dioxide may form when heated to decomposition.
Hazardous Polymerization: Will not occur
Incompatibilities: None
Conditions to Avoid: None

SECTION 11-Toxicological Information:

Routes of absorption: Inhalation, skin, eyes, ingestion
Threshold limit value: N/E
Signs, symptoms and effects of exposure:
Acute: N/A
Chronic: N/A

Irritation Effects Data: None specified, possible sensitization from prolonged contact with raw material.

SECTION 12-Ecological Information

Environmental Fate: N/A
Environmental Toxicity: N/A

SECTION 13-Disposal Considerations

Material must be stored and disposed of in accordance with all local, state and federal laws.

SECTION 14-Transport Information

Not regulated

SECTION 15-Regulatory Information

Ingredient	TSCA	EC	Japan	Australia
Potassium Acid Phthalate (877-24-7)	Yes	Yes	Yes	Yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	--Canada--			Phil.
	Korea	DSL	NDSL	
Potassium Acid Phthalate (877-24-7)	Yes	Yes	No	Yes
Water (7732-18-5)	Yes	Yes	No	Yes

SECTION 16-Other Information

N/A

NFPA Ratings: Health:1 Flammability:0 Reactivity:0

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