Buffer Solution pH 3



3/24/25: File reviewed, more current MSDS/SDS not available. CAS

Section 1

Section 2

Product Description

Product Name: Recommended Use: Synonyms: Distributor: Buffer Solution pH 3 Science education applications None known Carolina Biological Supply Company 2700 York Road, Burlington, NC 27215 1-800-227-1150 800-227-1150 (8am-5pm (ET) M-F) 800-424-9300 (Transportation Spill Response 24 hours)

Chemical Information: Chemtrec:

Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

WARNING



Harmful in contact with skin. Causes skin irritation.

GHS Classification:

Acute Toxicity - Dermal Category 4, Skin Corrosion/Irritation Category 2

Section 3	Composition / Information on Ingredients				
Chemical Name	<u>CAS # %</u>				
Water	7732-18-5 98.73				
Potassium Biphthalate	877-24-7 1.08				
Hydrogen Chloride	7647-01-0 0.19				
Section 4	First Aid Measures				
Emergency and First A	Procedures				
Inhalation:	In case of accident by inhalation: remove casualty to fresh air and keep at rest.				
Eves:	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.				

Spill or Leak Procedures

After contact with skin, wash immediately with plenty of water.

Hydrogen chloride

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Fire or excessive heat may produce hazardous decomposition products.

Section 5

Ingestion:

Skin Contact:

Firefighting Procedures

Extinguishing Media:Use dry chemical, CO2 or appropriate foam.Fire Fighting Methods and Protection:Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.

Fire and/or Explosion Hazards: Hazardous Combustion Products:

Section 6

Steps to Take in Case Material Is Released or Spilled:

No health affects expected from the clean-up of this material if contact can be avoided. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS

Prevent the spread of any spill to minimize harm to human health and the environment if safe to do so. Wear complete and proper personal protective equipment following the recommendation of Section 8 at a minimum. Dike with suitable absorbent material like granulated clay. Gather and store in a sealed container pending a waste disposal evaluation.

Section 7

Handling and Storage

Storage:

Handling: Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin and eyes.

Keep container tightly closed in a cool, well-ventilated place. Green - general chemical storage Storage Code:

Section 8	8 Protection Information				
	ACGIH		os	HA PEL	
<u>Chemical Name</u>	<u>(TWA)</u>	(STEL)	<u>(TWA)</u>	(STEL)	
Potassium Biphthalate	N/A	N/A	N/A	N/A	
Hydrogen Chloride	N/A	2 ppm (Ceiling)	N/A	5 ppm (Ceiling)	
Control Parameters					
Engineering Measures:	Local exhaust ventilation or other engineering controls are normally required when handling or using this product to avoid overexposure.				
Personal Protective Equipment (PPE):					
Respiratory Protection:		tion required under norma	I conditions of use.		
Respirator Type(s):	None required where adequate ventilation is provided. If airborne concentrations are above the applicable exposure limits, use NIOSH/MSHA approved respiratory protection.				
Eye Protection:	Wear chemical splash goggles when handling this product. Have an eye wash station available.				
Skin Protection:	Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through				
		r intervals. Clean protectiv			
		with mild soap and water			
Gloves:	No information availa	ble			

Section 9

Formula: See Section 3 Molecular Weight: No data available Appearance: Colorless Liquid Odor: None Odor Threshold: No data available **pH:** 3 Melting Point: Estimated 0 C Boiling Point: 100 C Flash Point: No data available Flammable Limits in Air: No data available

Physical Data

Vapor Pressure: No data available Evaporation Rate (BuAc=1): No data available Vapor Density (Air=1): No data available Specific Gravity: Approx. 1 Solubility in Water: Soluble Log Pow (calculated): No data available Autoignition Temperature: No data available Decomposition Temperature: No data available Viscosity: No data available Percent Volatile by Volume: No data available

Section 10

Reactivity: Chemical Stability: Conditions to Avoid: **Incompatible Materials: Hazardous Decomposition Products:** Hazardous Polymerization:

Reactivity Data

Not generally reactive under normal conditions. Stable under normal conditions. None known. Water-reactive materials, Strong oxidizing agents Hydrogen chloride Will not occur

Section 11

Toxicity Data

Routes of Entry Symptoms (Acute): **Delayed Effects:**

Inhalation, ingestion, eye or skin contact. No data available No data available

Acute Toxicity:

		Galety			
Chemical Name Water		CAS Number 7732-18-5	Oral LD50 Oral LD50 Rat 90000 mg/kg	Dermal LD50	Inhalation LC50
Potassium Biphthalate		877-24-7	Oral LD50 Rat > 3200 mg/kg	Dermal LD50 Guinea pig > 1000 mg/kg	
Hydrogen Chloride		7647-01-0	Oral LD50 Rabbit 900 mg/kg	ing/kg	INHALATION LC50 Rat 3700 ppm
Carcinogenicity:					
Chemical Name		CAS Number		NTP	OSHA
Potassium Biphthalate		877-24-7	Not listed	Not listed	Not listed
Hydrogen Chloride		7647-01-0	Not listed	Not listed	Not listed
Chronic Effects: Mutagenicity: Teratogenicity: Sensitization: Reproductive: Target Organ Effects: Acute: Chronic:	No evidence of a min No evidence of a ter No evidence of a se No evidence of nega No information av No information av	ratogenic effect (bi insitization effect. ative reproductive vailable	,		
Section 12			Ecological Data		
Overview: Mobility: Persistence: Bioaccumulation: Degradability: Other Adverse Effects:	This material is not expected to be harmful to the ecology. This material is expected to have high mobility in soil. It absorbs weakly to most soil types. Dissolved into water, Biodegradation, Evaporation into atmosphere, dissolved in water. Bioconcentration is not expected to occur. No data No data				
Chemical Name		CAS Number	Eco Toxicity		
Water		7732-18-5	No data available		
Potassium Biphthalate Hydrogen Chloride		877-24-7 7647-01-0	96 HR LC50 GAMBUSI	A AFFINIS 282 MG/L [STATIC]
Section 13		Dis	posal Informati	on	

Disposal Methods:

Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. Not Determined

Waste Disposal Code(s):

Section 14

Transport Information

Ground - DOT Proper Shipping Name: Not regulated for transport by US DOT. Air - IATA Proper Shipping Name: Not regulated for air transport by IATA.

Section 15

TSCA Status:

Regulatory Information

All components in this product are on the TSCA Inventory.

Chemical Name	CAS Number	§ 313 Name	§ 304 RQ	CERCLA RQ	§ 302 TPQ	CAA 112(2) TQ
Potassium Biphthalate	877-24-7	No	No	No	No	No
Hydrogen Chloride	7647-01-0	No	No	No	No	No

California Prop 65:

No California Proposition 65 ingredients

Additional Information

Revised: 08/21/2018

Replaces: 06/15/2018

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The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

ACGIH	American Conference of Governmental	NTP	National Toxicology Program
	Industrial Hygienists	OSHA	Occupational Safety and Health Administration
CAS	Chemical Abstract Service Number	PEL	Permissible Exposure Limit
CERCLA	Comprehensive Environmental Response,	ppm	Parts per million
	Compensation, and Liability Act	RCRA	Resource Conservation and Recovery Act
DOT	U.S. Department of Transportation	SARA	Superfund Amendments and Reauthorization Act
IARC	International Agency for Research on Cancer	TLV	Threshold Limit Value
N/A	Not Available	TSCA	Toxic Substances Control Act
		IDLH	Immediately dangerous to life and health