Safety Data Sheet

Buffer Solution pH 5

| Section 1 | Product Description | | | | |
|-----------------------------------|--|--|--|--|--|
| Product Name: Recommended Use: | Buffer Solution pH 5 Science education applications | | | | |
| Synonyms: | None known | | | | |
| Supplier: | C2A Sales & Supplies (Barbados) Ltd. #3 Canewood Road, Jackson, St. Michael, Barbados BB11005 1-246-426-1256 | | | | |

Section 2

Hazard Identification

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

Not a dangerous substance according to GHS classification criteria. No known OSHA hazards.

GHS Classification:

| Section 3 | C | omposition / Inform | mation on Ing | redients | | |
|--|---|--|---|--|--|--|
| Chemical Name | | | CAS # | <u>%</u> | | |
| Water | | | 7732-18-5 | 98.82 | | |
| Potassium Biphthalate | | | 877-24-7 | 1.08 | | |
| Sodium Hydroxide | | | 1310-73-2 | 0.1 | | |
| Section 4 | | First Aid | Measures | | | |
| Emergency and First Aid P | rocedures | | | | | |
| • • | | nt by inhalation: remove casua | Ity to fresh air and ke | ep at rest. | | |
| Eyes: In | case of contac | t with eyes, rinse immediately | with plenty of water a | nd seek medical advice. | | |
| Skin Contact: A | fter contact with | skin, wash immediately with p | lenty of water. | | | |
| - | swallowed, do r label. | not induce vomiting: seek med | dical advice immediat | ely and show this container | | |
| Section 5 | | Firefighting | Procedures | | | |
| Extinguishing Media: Fire Fighting Methods ar | nd Protection: | Use media suitable to exting Firefighters should wear full contained breathing apparat | protective equipment | | | |
| Fire and/or Explosion Ha | zards: | Fire or excessive heat may produce hazardous decomposition products. | | | | |
| Hazardous Combustion Carbon dioxide, Carbon monoxide, Potassium Oxide Products: Carbon dioxide, Carbon monoxide, Potassium Oxide | | | | | | |
| Section 6 | | Spill or Leak Pro | cedures | | | |
| Steps to Take in Case Ma Released or Spilled: | | w personal protective equipm | | terial if contact can be avoided. found in Section 8 of this | | |
| Environmental Precautio | ons: Avoi Prev safe reco gran | d breathing material. Avoid co rent the spread of any spill to n to do so. Wear complete and | ninimize harm to hum proper personal prote minimum. Dike with s | an health and the environment if ctive equipment following the uitable absorbent material like | | |
| Section 7 | | Handling and S | torage | | | |
| Handling: Avoid co | ontact with skin | and eyes. | | | | |

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

Section 8

Protection Information

| | ACC | GIH | OSHA PEL | | | |
|--------------------------------------|--|-----|----------------|--------|--|--|
| <u>Chemical Name</u> | (TWA) (STEL) | | (TWA) | (STEL) | | |
| Potassium Biphthalate | N/A | N/A | N/A | N/A | | |
| Sodium Hydroxide | N/A | N/A | 2 mg/m3 TWA N/ | | | |
| 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): | Lab coat, apron, eye wash, safety shower. | | | | | |
| Respiratory Protection: | No respiratory protection required under normal 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 and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. | | | | | |
| Gloves: | No information availab | le | | | | |

Physical Data

Section 9

| Formula: See Section 3 |
|--|
| Molecular Weight: No data available |
| Appearance: Colorless Liquid |
| Odor: None |
| Odor Threshold: No data available |
| pH: 5 |
| Melting Point: Estimated 0 C |
| Boiling Point: 100 C |
| Flash Point: No data available |
| Flammable Limits in Air: No data available |

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 Potassium Oxide, Carbon dioxide, Carbon monoxide 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: | | | | |
|-----------------------|------------|--|---|-----------------|
| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
| Water | 7732-18-5 | Oral LD50 Rat | | |
| Potassium Biphthalate | 877-24-7 | 90000 mg/kg Oral LD50 Rat > 3200 mg/kg | Dermal LD50 Guinea pig > 1000 mg/kg | |

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| Carcinogenicity: Chemical Name Potassium Biphthalate Sodium Hydroxide Chronic Effects: | | CAS Number 877-24-7 1310-73-2 | IARC Not listed Not listed | NTP Not listed Not listed | Not | OSHA listed listed | | | |
|--|--|---|--|--|----------------|---------------------------------|--|--|--|
| Mutagenicity: | No evidence of a mutagenic effect. | | | | | | | | |
| Teratogenicity: | No evidence of a te | No evidence of a teratogenic effect (birth defect). | | | | | | | |
| Sensitization: | No evidence of a se | ensitization effect. | | | | | | | |
| Reproductive: No evidence of negative reproductive effects. Target Organ Effects: | | | | | | | | | |
| Acute: | No information a | o information available | | | | | | | |
| Chronic: | No information a | vailable | | | | | | | |
| Section 12 | | E | cological Da | ata | | | | | |
| Overview: Mobility: | | ial is not expected t ial is expected to ha | | | reakly to most | soil types. | | | |
| Persistence: | Dissolved i | nto water, Biodegra | adation | | | | | | |
| Bioaccumulation: | No data | | | | | | | | |
| Degradability: | No data | | | | | | | | |
| Other Adverse Effects | s: No data | | | | | | | | |
| Chemical Name Water | | CAS Number 7732-18-5 | Eco Toxicity No data available | | | | | | |
| Potassium Biphthalate | | 877-24-7 | | | | | | | |
| Sodium Hydroxide | | 1310-73-2 | Aquatic LC50 (96 | h) Rainbow Trou | t 45.4 MG/L | | | | |
| Section 13 | | Disp | osal Inform | ation | | | | | |
| Disposal Methods: | Disposal Methods: Dispose in accordance with all applicable Federal, State and Local regulations. | | | | | | | | |
| Waste Disposal Code | Always contact a permitted waste disposer (TSD) to assure compliance. (s): Not Determined | | | | | | | | |
| Section 14 Transport Information | | | | | | | | | |
| Ground - DOT Prop | | | | nor Chinning N | | | | | |
| Name: Not regulated for transp | | | | per Shipping N a for air transport b | | | | | |
| Section 15 | | Regi | ulatory Infor | mation | | | | | |
| TSCA Status: Chemical Name | All CAS Numbe | components in this § 313 Nam r | - | TSCA Inventory. CERCLA RQ | § 302 TPQ | CAA 112(2) TQ | | | |
| Potassium Biphthalate | 877-24- | -7 No | No | No | No | No | | | |

| Sodium Hydroxid | de 1310-73-2 | No | 1000 lb final RQ | 1000lb (454kg) | No RQ | No |
|-----------------------|---|---------------------|---------------------|-------------------|------------------|---------------------|
| California Prop 65 | 5: | No | o California | Proposition 65 ir | ngredients | |
| Section 16 | | | | | Additi Inform | |
| | S | Safety Data | a She | et | | |
| Revised: 08/21/201 | 8 Replace | es: 06/15/2018 | | Printed: | 08-25-2018 | |
| available to us. Card | vided in this (Material) Safety Data blina Biological Supply makes no bstance covered in the (Material) | representation or g | juarantee a | | • | |
| Glossary | | () | | | | |
| | nerican Conference of Governmei lustrial Hygienists | | SHA | | ology Program | th Administration |
| | emical Abstract Service Number | PF | | Permissible Ex | • | III Autimistration |
| CERCLA Co | mprehensive Environmental Res | ponse, pp | m | Parts per millio | • | |
| | mpensation, and Liability Act | | CRA | Resource Con | servation and R | ecovery Act |
| DOT U.S | 6. Department of Transportation | SA | RA | | | Reauthorization Act |
| | ernational Agency for Research o | | | Threshold Lim | it Value | |
| N/A No | t Available | | SCA | | ces Control Act | |
| | | ID | LH | Immediately d | angerous to life | and health |

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