Section 1. Chemical Product and Company Identification
PRODUCT IDENTITY: STANDARD BUFFER SOLUTION 4.00 pH
CATALOG NUMBER(S): 02.0032
Manufacturer’s Name: Mesa Laboratories, Inc
Address: 12100 W. 6th Ave. Lakewood, Co 80228
Telephone Number for Information: 303-987-8000
Date Prepared: 09MAY2018

Section 2. Hazards Identification

EMERGENCY OVERVIEW
Non-flammable, non-toxic, non-corrosive. Does not present any significant health hazards.

POTENTIAL HEALTH EFFECTS: TARGET ORGANS: eyes, skin
May cause slight irritation to skin and eyes; ingestion of large quantity may cause stomach upset.

Section 3. Composition / Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Registry #</th>
<th>Carcinogen</th>
<th>Concentration</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Potassium Acid Phthalate</td>
<td>877-24-7</td>
<td>No</td>
<td>0.9 – 1.1</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Preservative*</td>
<td>proprietary</td>
<td>No</td>
<td>&lt; 0.5</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Inert Dye</td>
<td>proprietary</td>
<td>No</td>
<td>&lt; 0.1</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Water, Deionized</td>
<td>7732-18-5</td>
<td>No</td>
<td>Balance</td>
<td>N/A</td>
<td>N/A</td>
</tr>
</tbody>
</table>

*does not contain any Mercury compounds or Formaldehyde.

Section 4. First Aid Measures - In all cases, seek qualified evaluation.
EYE and SKIN CONTACT: Wash areas of contact with water for at least 15 minutes.
INHALATION: Remove to fresh air. Give artificial respiration if necessary.
INGESTION: Dilute with water or milk. Call a physician if necessary.

Section 5. Fire Fighting Measures
EXTINGUISHING MEDIA: Use any means suitable for extinguishing the surrounding fire.
FIRE & EXPLOSION HAZARDS: Not considered to be a fire or explosion hazard.
FIRE FIGHTING INSTRUCTIONS: Use normal procedures / instructions. Use protective clothing and breathing equipment appropriate for the surrounding fire.

Section 6. Accidental Release Measures
Absorb with suitable material (paper towels, etc.) and dispose of in accordance with local regulations.

Section 7. Handling and Storage
As with all chemicals, wash hands thoroughly after handling. Avoid contact with eyes. Protect from freezing and physical damage.

Section 8. Exposure Controls / Personal Protection
ENGINEERING CONTROLS: No specific controls are needed. Normal room ventilation is adequate.
RESPIRATORY PROTECTION: Normal room ventilation is adequate.
SKIN PROTECTION: Gloves
EYE PROTECTION: Safety glasses or goggles
Section 9. Physical and Chemical Properties

APPEARANCE: Clear, red colored liquid  
PH: 4.0

SOLUBILITY IN WATER: Infinite  
BOILING POINT: approximately 100°C

ODOR: odorless  
MELTING POINT: approximately 0°C

SPECIFIC GRAVITY: approximately 1.0  
VAPOR PRESSURE: N/A

Section 10. Stability and Reactivity

CHEMICAL STABILITY: Stable under normal conditions of use and storage.

INCOMPATIBILITY: Nitric Acid

HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of Carbon and Potassium

HAZARDOUS POLYMERIZATION: Will not occur

Section 11. Toxicological Information

LD50 Oral, Rat: >3200 mg/kg (Potassium Acid Phthalate). No toxic effects noted per “Registry of Toxic Effects of Chemical Substances”.

Section 12. Ecological Information

ECOTOXICOLOGICAL INFORMATION: No information found.

CHEMICAL FATE INFORMATION: No information found.

Section 13. Disposal Considerations

Dilute with water and flush to sewer if local regulations allow. If not allowed, save for recovery or recycling in an approved waste disposal facility. Dispose of in accordance with local, state, and federal regulations.

Section 14. Transport Information:

The goods are not regulated by DOT.
The goods are not regulated by IATA.
The goods are not dangerous, not hazardous or not restricted for transport by air.

Section 15. Regulatory Information (Not meant to be all inclusive - selected regulation represented)

OSHA STATUS: The above items either do not contain any specifically hazardous material or the potentially hazardous material is present in such low concentration that the items do not present any immediate threat to health and safety. These items do not meet the OSHA Hazard Communication Standard (29 CFR 1910.1200) definition of a hazardous material.

TSCA STATUS: All components of this solution are listed on the TSCA Inventory.

CERCLA REPORTABLE QUANTITY: Not reportable

SARA TITLE III:
- SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: No
- SECTION 311/312 HAZARDOUS CATEGORIES: No
- SECTION 313 TOXIC CHEMICALS: No

RCRA STATUS: No

Section 16. Other Information

NFPA Ratings:  
Health: 1  Flammability: 0  Reactivity: 0  Special Notice Key: None

HMIS® Ratings:  
Health: 1  Flammability: 0  Reactivity: 0  Protective Equipment: A (Protective eyewear)

When handled properly by qualified personnel, the product described herein does not present a significant health or safety hazard. Alteration of its characteristics by concentration, evaporation, addition of other substances, or other means may present hazards not specifically addressed herein and which must be evaluated by the user. The information furnished herein is believed to be accurate and represents the best data currently available to us. No warranty, expressed or implied, is made and Mesa Laboratories, Inc. assumes no legal responsibility or liability whatsoever resulting from its use.