Safety Data Sheet  
according to 29CFR1910/1200 and GHS Rev. 3

Effective date: 10.24.2014

Pouches, 5 EA OF pH 4,7,10

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: Pouches, 5 EA OF pH 4,7,10

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: PHAB-PH

Recommended uses of the product and restrictions on use:

Manufacturer Details:
A004305

Supplier Details:
Omega Engineering Inc.
One Omega Drive, Box 4047, Stamford, CT 06907
(203)359-7694

Emergency telephone number:
Omega Engineering Inc.  TELEX:996404 FAX: 203/359-7770

SECTION 2: Hazards identification

Classification of the substance or mixture:

Not classified for physical or health hazards under GHS.

Hazard statements:

Precautionary statements:
If medical advice is needed, have product container or label at hand.
Keep out of reach of children.
Read label before use. Do not eat, drink or smoke when using this product.

Other Non-GHS Classification:

WHMIS
NFPA/HMIS

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Physical Hazard</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

NFPA SCALE (0-4)  HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>Deionized Water</th>
<th>98.97 %</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS 7732-18-5</td>
<td>Delonized Water</td>
<td>98.97 %</td>
</tr>
<tr>
<td>CAS 877-24-7</td>
<td>Potassium Acid Phthalate</td>
<td>1.02 %</td>
</tr>
</tbody>
</table>

Created by Global Safety Management, 1-813-435-5161 - www.GSMSDS.com
SECTION 4 : First aid measures

Description of first aid measures

After inhalation: Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. Seek medical advice if discomfort or irritation persists.

After skin contact: Wash affected area with soap and water. Rinse thoroughly. Seek medical attention if irritation, discomfort or vomiting persists.

After eye contact: Protect unexposed eye. Rinse/flush exposed eye(s) gently using water for 15-20 minutes. Remove contact lens(es) if able to do so during rinsing. Seek medical attention if irritation persists or if concerned.

After swallowing: Rinse mouth thoroughly. Do not induce vomiting. Have exposed individual drink sips of water. Seek medical attention if irritation, discomfort or vomiting persists.

Most important symptoms and effects, both acute and delayed:


Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician.

SECTION 5 : Firefighting measures

Extinguishing media

Suitable extinguishing agents: If in laboratory setting, follow laboratory fire suppression procedures. Use appropriate fire suppression agents for adjacent combustible materials or sources of ignition.

For safety reasons unsuitable extinguishing agents: None

Special hazards arising from the substance or mixture:

Combustion products may include carbon oxides or other toxic vapors.

Advice for firefighters:

Protective equipment: None

Additional information (precautions): Move product containers away from fire or keep cool with water spray as a protective measure, where feasible.

SECTION 6 : Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Ensure adequate ventilation. Keep away from ignition sources. Protect from heat. Stop the spill, if possible. Contain spilled material by diking or using inert absorbent. Transfer to a disposal or recovery container.

Environmental precautions:

Prevent from reaching drains, sewer or waterway. Collect contaminated soil for characterization per Section 13.

Methods and material for containment and cleaning up:

If in a laboratory setting, follow Chemical Hygiene Plan procedures. Collect liquids using vacuum or by use of absorbents. Place into properly labeled containers for recovery or disposal. If necessary, use trained response staff/contractor.

Reference to other sections:

None
SECTION 7: Handling and storage

Precautions for safe handling:

Prevent formation of aerosols. Follow good hygiene procedures when handling chemical materials. Do not eat, drink, smoke, or use personal products when handling chemical substances. If in a laboratory setting, follow Chemical Hygiene Plan. Use only in well ventilated areas. Avoid splashes or spray in enclosed areas.

Conditions for safe storage, including any incompatibilities:

Provide ventilation for containers. Store away from foodstuffs. Store away from oxidizing agents. Store in cool, dry conditions in well sealed containers.

SECTION 8: Exposure controls/personal protection

Control Parameters: No applicable occupational exposure limits.

Appropriate Engineering controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use/handling. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor or mists below the applicable workplace exposure limits (Occupational Exposure Limits-DELS) indicated above.

Respiratory protection: Not required under normal conditions of use. Use suitable respiratory protective device when high concentrations are present. Use suitable respiratory protective device when aerosol or mist is formed. For spills, respiratory protection may be advisable.

Protection of skin: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation being used/handled. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Eye protection: Safety glasses with side shields or goggles.

General hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from food, beverages and feed sources. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Do not inhale gases/fumes/dust/mist/vapor/aerosols. Avoid contact with the eyes and skin.

SECTION 9: Physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance (physical state,color):</th>
<th>Clear, red liquid</th>
<th>Explosion limit lower:</th>
<th>Not Determined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor:</td>
<td>Odorless</td>
<td>Explosion limit upper:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Odor threshold:</td>
<td>Not determined</td>
<td>Vapor pressure:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>pH-value:</td>
<td>4</td>
<td>Vapor density:</td>
<td>Not Determined</td>
</tr>
<tr>
<td>Melting/Freezing point:</td>
<td>0 °C (32 °F)</td>
<td>Relative density:</td>
<td>Approx 1</td>
</tr>
<tr>
<td>Boiling point/Boiling range:</td>
<td>100°C (212°F)</td>
<td>Solubilities:</td>
<td>Infinite solubility in water.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Partition coefficient (n-octanol/water):</td>
<td>Not determined</td>
</tr>
</tbody>
</table>
### Safety Data Sheet

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**Effective date:** 10.24.2014

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**Pouches, 5 EA OF pH 4,7,10**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash point (closed cup)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Auto/Self-ignition temperature:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Evaporation rate:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition temperature:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability (solid, gaseous):</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Viscosity:</td>
<td>a. Kinematic: Not determined</td>
</tr>
<tr>
<td>Density:</td>
<td>b. Dynamic: Not determined</td>
</tr>
</tbody>
</table>

**SECTION 10 : Stability and reactivity**

**Reactivity:** None

**Chemical stability:** No decomposition if used and stored according to specifications.

**Possible hazardous reactions:** None

**Conditions to avoid:** Store away from oxidizing agents, strong acids or bases.

**Incompatible materials:** Nitric acid.

**Hazardous decomposition products:** Carbon oxides (CO, CO2). Potassium oxides.

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**SECTION 11 : Toxicological information**

**Acute Toxicity:**

<table>
<thead>
<tr>
<th>Route</th>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oral</td>
<td>(Potassium Acid Phthalate)</td>
<td>LD50 Rat: 3200 mg/kg</td>
</tr>
</tbody>
</table>

**Chronic Toxicity:** No additional information.

**Corrosion Irritation:** No additional information.

**Sensitization:** No additional information.

**Single Target Organ (STOT):** None

**Numerical Measures:** No additional information.

**Carcinogenicity:** No additional information.

**Mutagenicity:** None

**Reproductive Toxicity:** None

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**SECTION 12 : Ecological information**

**Ecotoxicity** None

**Persistence and degradability:** Readily degradable in the environment.

**Bioaccumulative potential:** None

**Mobility in soil:** Aqueous solution has high mobility in soil.

**Other adverse effects:** None

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**SECTION 13 : Disposal considerations**

**Waste disposal recommendations:**

Product/containers must not be disposed together with household garbage. Do not allow product to reach sewage system or open water. It is the responsibility of the waste generator to properly characterize all waste.
Pouches, 5 EA OF pH 4,7,10

materials according to applicable regulatory entities (US 40CFR262.11). Consult federal state/ provincial and local regulations regarding the proper disposal of waste material that may incorporate some amount of this product.

SECTION 14 : Transport information

UN-Number
Not Regulated.

UN proper shipping name
Not Regulated.

Transport hazard class(es)
Packing group: Not Regulated
Environmental hazard: None
Transport in bulk:
Special precautions for user: None

SECTION 15 : Regulatory information

United States (USA)
SARA Section 311/312 (Specific toxic chemical listings):
None of the ingredients is listed
SARA Section 313 (Specific toxic chemical listings):
None of the ingredients is listed
RCRA (hazardous waste code):
None of the ingredients is listed
TSCA (Toxic Substances Control Act):
All ingredients are listed.
CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):
None of the ingredients is listed

Proposition 65 (California):
Chemicals known to cause cancer:
None of the ingredients is listed
Chemicals known to cause reproductive toxicity for females:
None of the ingredients is listed
Chemicals known to cause reproductive toxicity for males:
None of the ingredients is listed
Chemicals known to cause developmental toxicity:
None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):
All ingredients are listed.
Canadian NPRI Ingredient Disclosure list (limit 0.1%):
None of the ingredients is listed
Canadian NPRI Ingredient Disclosure list (limit 1%):
None of the ingredients is listed

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases:
None

Abbreviations and acronyms:
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
WHMIS: Workplace Hazardous Materials Information System (Canada)
DNEL: Derived No-Effect Level (REACH)
PNEC: Predicted No-Effect Concentration (REACH)
CFR: Code of Federal Regulations (USA)
SARA: Superfund Amendments and Reauthorization Act (USA)
RCRA: Resource Conservation and Recovery Act (USA)
TSCA: Toxic Substances Control Act (USA)
NPRI: National Pollutant Release Inventory (Canada)
DOT: US Department of Transportation

Effective date: 10.24.2014
Last updated: 05.29.2015