Revision Date: 08/20/2020

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Identifiers

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Product Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>BP611</td>
<td>0.05 M MES Buffer (pH 5.2) - Component HBM56011</td>
</tr>
</tbody>
</table>

1.2 Relevant identified uses of substance or mixture and uses advised against

Identified uses: Lab use

1.3 Details of the supplier of the safety data sheet

Company: Bangs Laboratories / A Division of Polysciences

9025 Technology Drive

Fishers, Indiana 46038

USA

Telephone: 800-387-0672

1.4 Emergency telephone number

Emergency Phone: 317-348-1673

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

GHS Classification: Non-Hazardous

Signal word: Non-Hazardous

Pictogram: NONE

Not a hazardous substance or mixture according to Regulation (EU) No. 1272/2008.

Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC.

Hazard Statement(s)

H000 Low hazard for normal industrial use

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305B IF IN EYES: Separate eyelids with fingertips.

P313 Get medical advice/attention

P351 Rinse cautiously with water for several minutes.

2.2 Hazard Ratings: These ratings are Bangs Laboratories, Inc.’s own assessments of the properties of the material using the ANSI/NFPA 704 Standard. Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49). If no data is listed, the information is not available.

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Reactivity</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
</tbody>
</table>

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Item</th>
<th>Name</th>
<th>CAS #</th>
<th>% in Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Water</td>
<td>007732185</td>
<td>98.842</td>
</tr>
<tr>
<td>2</td>
<td>MES Hydrate</td>
<td>1266615591</td>
<td>1.158</td>
</tr>
</tbody>
</table>

SECTION 4: FIRST AID MEASURES

 Eyes: In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.

 Skin: In case of contact, immediately wash skin with copious amounts of water for at least 15 minutes.

 Ingestion: Contact physician immediately.

 Inhalation: Remove to fresh air if effects occur. Consult medical personnel.

 Systemic: Human effects not established. No specific antidote. Treatment based on sound judgment of physician and the individual reactions of the patient.
SECTION 5: FIRE FIGHTING MEASURES
5.1 Extinguishing Media: Not applicable
5.2 Special hazards arising from the substance or mixture: Mixture is not flammable.
5.3 Advice for firefighters: Not applicable
5.4 Further Information: No data available

SECTION 6: ACCIDENTAL RELEASE MEASURES
6.1 Personal precautions, protective equipment and emergency procedures
Any information given below is considered to be in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition source from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel. Wear vinyl gloves, soak up spill in paper toweling, and rinse area with water. Put all generated waste into an approved container and dispose of as waste. Observe all applicable federal, state, and local disposal laws.

6.2 Environmental Precautions: No special measures are indicated.
6.3 Methods and materials for containment and cleaning up: No special measures are indicated.
6.4 Reference to other sections: For disposal see section 13.

SECTION 7: HANDLING AND STORAGE
7.1 Precautions for safe handling
Respiratory Protection: None normally needed.

7.2 Conditions for safe storage, including any incompatibilities
Ventilation: Good room ventilation is adequate for most operations.
Respiratory Protection: None normally needed.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION
8.1 Control parameters
Respiratory Protection: None normally needed.
Wash / Hygienic Practices: Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.

8.2 Exposure Controls: None Indicated
The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves. Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not internal immersion of the hands into the product. Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product. Permeation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES
9.1 Information on basic physical and chemical properties
Boiling Point: 200°F
Solubility: soluble
Appearance: clear, colorless liquid

9.2 Other safety information: None

SECTION 10: STABILITY AND REACTIVITY
10.1 Reactivity: No data available
10.2 Chemical Stability: Stable under recommended storage conditions
10.3 Possibility of hazardous reactions: No data available
10.4 Conditions to avoid: No data available
10.5 Incompatible materials: No dangerous reaction known under conditions of normal use

SECTION 11: TOXICOLOGICAL INFORMATION
11.1 Information on toxicological effects: To the best of our knowledge, the chemical, physical, and toxic properties of this product have not been thoroughly investigated.

SECTION 12: ECOLOGICAL INFORMATION
No Data
SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods: The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number, the substance may be subject to special federal and state disposal regulations. If no codes are listed, the material must be disposed of in compliance with all Federal, State, and Local Regulations. Bangs Laboratories disposes of polymer-based microparticles through our standard chemical waste disposal program, which is performed by a licensed provider in a safe, compliant, and environmentally-conscious manner.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Waste Code</th>
<th>Regulated Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>007732185</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>1266615591</td>
<td>not listed</td>
<td>not listed</td>
</tr>
</tbody>
</table>

SECTION 14: TRANSPORT INFORMATION

Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

SECTION 15: REGULATORY INFORMATION

All components of this product are on the TSCA public inventory.

Prop 65: Column A identifies those items which are known to the State of California to cause cancer. Column B identifies those which are known to the State of California to cause reproductive toxicity.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Column A</th>
<th>Column B</th>
</tr>
</thead>
<tbody>
<tr>
<td>007732185</td>
<td>no</td>
<td>no</td>
</tr>
<tr>
<td>1266615591</td>
<td>no</td>
<td>no</td>
</tr>
</tbody>
</table>

SARA Toxic Release Chemicals (as defined in Section 313 of SARA Title III): This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). This list is also referred to as the Toxic Release Inventory (TRI) List.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Regulated Name</th>
<th>de minimis conc %</th>
<th>Rep. Thres.</th>
</tr>
</thead>
<tbody>
<tr>
<td>007732185</td>
<td>not listed</td>
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</table>

SARA Extremely Hazardous Substances and TPQs: This list identifies hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

<table>
<thead>
<tr>
<th>CAS #</th>
<th>Regulated Name</th>
<th>TPQ (pounds)</th>
<th>EHS-RQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>007732185</td>
<td>not listed</td>
<td>not listed</td>
<td>not listed</td>
</tr>
<tr>
<td>1266615591</td>
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<td>not listed</td>
<td>not listed</td>
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SECTION 16: OTHER INFORMATION

BANGS LABORATORIES, INC. provides the information contained herein in good faith, but makes no representation as to its comprehensiveness or accuracy. Individuals receiving this information must exercise their independent judgment in determining its appropriateness for a particular purpose.

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Preparation Information:
Bangs Laboratories, Inc.
1-800-387-0672

END OF SDS