

# Material Safety Data Sheet

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## Section 1: Chemical Product and Company Identification

Date Prepared: 12/06/2011  
Catalog Code: **HBM56011**  
Product: **0.05 M MES Buffer (pH 5.2)**  
Supplier: Bangs Laboratories, Inc. / A Division of Polysciences, Inc.  
9025 Technology Drive  
Fishers, Indiana 46038

## Section 2: Composition / Information on Ingredients

<u>Item#</u>	<u>Name</u>	<u>CAS#</u>	<u>% in Product</u>
1	4-Morpholineethanesulfonic acid	004432319	1.1576
2	Water	007732185	98.842

## Section 3: Hazard Identification

Low hazard for usual industrial or commercial handling.

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.

Health	Flammability	Reactivity
0	1	0

## Section 4: First Aid Measures

Contact medical personnel. Separate eyelids with finger tips. Flush eyes with flowing water for at least 15 minutes. If swallowed, give 8 oz. of water or milk to drink. Never give anything by mouth to an unconscious person. Wash skin with deluge of water for at least 15 minutes.

## SECTION 5: Fire Fighting Measures

Flash Point, deg. F:	> 200°F
Method:	no data
UEL:	no data
LEL:	no data
Autoignition Temperature, deg. F:	no data
Flammability:	no data
Flame Propagation:	no data
Hazardous Combustion Products:	no data

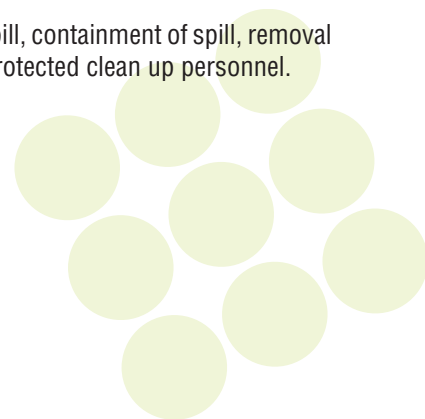
## Section 6: Accidental Release Measures

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.

*No special measures are indicated.*

## Section 7: Handling and Storage

Store at 2-8°C.



## Section 8: Exposure Controls and Personal Protection

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.

*No special protection is indicated.*

## Section 9: Physical and Chemical Properties

Formula: mixture  
Vapor Pressure: no data  
Formula Weight: nap  
Vapor Density: no data  
Boiling Point: no data  
Specific Gravity: 1  
Melting Point: no data  
pH: no data  
Solubility: soluble  
Appearance: clear colorless liquid

## Section 10: Stability and Reactivity

Chemical Stability: stable  
Conditions to Avoid: no data  
Incompatibility with Other Materials: no data  
Hazardous Decomposition Products: no data  
Hazardous Polymerization: will not occur

## Section 11: Toxicological Information

Acute Data: no data  
Subchronic Data: no data

## Section 12: Ecological Information

no data

## Section 13: Disposal Considerations

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.

<u>CAS#</u>	<u>Waste Code</u>	<u>Regulated Name</u>
004432319	not listed	not listed
007732185	not listed	not listed

## Section 14: Transport Information

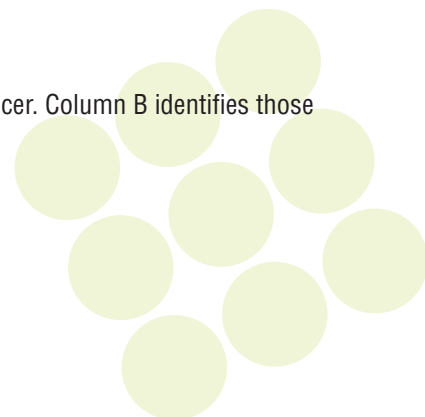
Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

## 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.

<u>CAS#</u>	<u>Column A</u>	<u>Column B</u>
004432319	no	no
007732185	no	no



**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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**END OF MSDS**

