



**BIOMEME, INC.**  
**Safety Data Sheet**

**BLB - Biomeme Lysis Buffer**

**SECTION 1: Identification**

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**1.1 Product identifier**

|              |                            |
|--------------|----------------------------|
| Product name | BLB - Biomeme Lysis Buffer |
| Brand        | Biomeme, Inc.              |

**1.4 Supplier's details**

|           |  |
|-----------|--|
| Name      | Biomeme, Inc.  |
| Address   | 1015 Chestnut Street<br>Suite 1401<br>Philadelphia PA 19107<br>USA |
| Telephone | 267-930-7707   |
| email     | support@biomeme.com  |

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**SECTION 2: Hazard identification**

**General hazard statement**

"Consumer Products", as defined by the US Consumer Product Safety Act and which are used as intended (typical consumer duration and frequency), are exempt from the OSHA Hazard Communication Standard (29 CFR 1910.1200). This SDS is being provided as a courtesy to help assist in the safe handling and proper use of the product.

**2.1 Classification of the substance or mixture**

**GHS classification in accordance with: (US) OSHA (29 CFR 1910.1200)**

- Eye damage/irritation, Cat. 2A
- Flammable liquids, Cat. 3
- Skin corrosion/irritation, Cat. 1A
- Eye damage/irritation, Cat. 1

**2.2 GHS label elements, including precautionary statements**

**Pictogram**



# Safety Data Sheet

## BLB - Biomeme Lysis Buffer

### Signal word

### Danger

#### Hazard statement(s)

H226  
H314  
H318  
H319

Flammable liquid and vapor  
Causes severe skin burns and eye damage  
Causes serious eye damage  
Causes serious eye irritation

#### Precautionary statement(s)

P264  
P280  
P305+P351+P338

P337+P313  
P210  
P233  
P240  
P241  
P242  
P243  
P303+P361+P353

P370+P378  
P403+P235  
P501  
P260  
P301+P330+P331  
P363  
P304+P340  
P310  
P321  
P405

Wash ... thoroughly after handling.  
Wear eye protection/face protection/protective gloves/protective clothing.  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.  
Keep away from heat/sparks/open flames/hot surfaces. No smoking.  
Keep container tightly closed.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/.../ equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
In case of fire: Use ... to extinguish.  
Store in a well-ventilated place. Keep cool.  
Dispose of contents/container to ...  
Do not breathe dust/fume/gas/mist/vapors/spray.  
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
Wash contaminated clothing before reuse.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Immediately call a POISON CENTER/doctor/...  
Specific treatment (see ... on this label).  
Store locked up.

### 2.3 Other hazards which do not result in classification

Slip hazard from spills

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

##### 1. Component 1 (trade secret)\*

Concentration 0 - 20 % (volume)

##### 2. Component 2 (trade secret)\*

Concentration 25 - 50 % (volume)

- Serious eye damage/eye irritation, Cat. 2

H319 Causes serious eye irritation

##### 3. Component 3 (trade secret)\*

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Concentration 70 - 90 % (volume)

### 4. Component 4 (trade secret)\*

Concentration 0 - 20 % (volume)

### 5. Component 5 (trade secret)\*

Concentration 0 - 20 % (weight)

- Flammable liquids, Cat. 3
- Skin corrosion/irritation, Cat. 1A

H226  
H314

Flammable liquid and vapor  
Causes severe skin burns and eye damage

### 6. Guanidine Thiocyanate

Concentration 25 - 75 % (weight)  
CAS no. 593-84-0

### 7. Component 7 (trade secret)\*

Concentration 0 - 10 % (volume)

### 8. Component 8 (trade secret)\*

Concentration 0 - 10 % (volume)

### 9. Component 9 (trade secret)\*

Concentration 0 - 20 % (volume)

### Trade secret statement (OSHA 1910.1200(i))

\*The specific chemical identities and/or actual concentrations or actual concentration ranges for one or more listed components are being withheld as trade secrets under the US regulation 29 CFR 1910.1200(i).

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## SECTION 4: First-aid measures

### 4.1 Description of necessary first-aid measures

|                         |   |
|-------------------------|---|
| General advice          | Consult a physician. Show this safety data sheet to the doctor in attendance.<br>Move out of dangerous area.  |
| If inhaled              | Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.<br><br>Acute and delayed symptoms and effects: May cause respiratory irritation. Signs/symptoms may include burning pain in the nose and throat, coughing, wheezing, shortness of breath and pulmonary edema. |
| In case of skin contact | Take off immediately all contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.   |

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|                        |   |
|------------------------|---|
| In case of eye contact | Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.  |
| If swallowed           | Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Never give anything by mouth to an unconscious person.<br><br>Acute and delayed symptoms and effects: Harmful if swallowed. Causes burns to nose, mouth, throat, and digestive tract. Signs/symptoms may include severe mouth, throat and abdominal pain, nausea, vomiting, and diarrhea, blood in the feces and/or vomitus may also be seen. |

### 4.2 Most important symptoms/effects, acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

No data available.

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## SECTION 5: Fire-fighting measures

### 5.1 Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 5.2 Specific hazards arising from the chemical

No data available.

### 5.3 Special protective actions for fire-fighters

Avoid any skin contact. Effects of contact or inhalation may be delayed. Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may be corrosive and/or toxic and cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Wear chemical protective clothing that is specifically recommended by the manufacturer. It may provide little or no thermal protection. Structural firefighters' protective clothing provides limited protection in fire situations ONLY; it is not effective in spill situations where direct contact with the substance is possible.

#### Further information

Use water spray to cool unopened containers. Spills produce extremely slippery surfaces.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Warning: Do not touch or walk through spilled material. Spills can create very slippery surfaces. Wear respiratory protection if necessary. Avoid breathing gas, mist, vapors, or spray. Ensure adequate ventilation. Evacuate personnel to safe areas. For personal protection see section 8.

### 6.2 Environmental precautions

Do not contaminate water.

### 6.3 Methods and materials for containment and cleaning up

Stop leak if you can do it without risk. Sweep up and shovel into suitable containers for disposal.

#### Reference to other sections

For disposal see section 13.

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## SECTION 7: Handling and storage

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## BLB - Biomeme Lysis Buffer

### 7.1 Precautions for safe handling

Surfaces are very slippery from this product. Do not swallow. Do not breathe mist, vapors, or spray. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. See Section 8 for information on Personal Protective Equipment.

### 7.2 Conditions for safe storage, including any incompatibilities

Freezing will adversely affect the quality of the product. Store locked up. Keep away from heat and sources of ignition. Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

#### Specific end use(s)

Apart from the uses mentioned in section 1 no other specific uses are stipulated.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### 1. Component 5 (trade secret)\*

PEL (Inhalation): 25 mg/m<sup>3</sup>; USA (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 10 ppm; USA (OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

PEL (Inhalation): 10 ppm, (ST) 15 ppm, (C) 40 ppm; USA (Cal/OSHA)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

REL (Inhalation): 10 ppm, (ST) 15 ppm; USA (NIOSH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

TLV® (Inhalation): 10 ppm, (ST) 15 ppm; USA (ACGIH)  
OSHA Annotated Table Z-1, [www.osha.gov](http://www.osha.gov)

TWA (Inhalation): 10 ppm; USA (ACGIH)  
USA. ACGIH Threshold Limit Values (TLV)/ Pulmonary function

STEL (Inhalation): 15 ppm; USA (ACGIH)  
USA. ACGIH Threshold Limit Values (TLV)/Pulmonary function. Upper Respiratory Tract irritation. Eye irritation

ST (Inhalation): 15 ppm  
37 mg/m<sup>3</sup>; USA (NIOSH)  
USA. NIOSH Recommended  
Exposure Limits/ Can be found in concentrations of 5-8% in vinegar

TWA (Inhalation): 10 ppm  
25 mg/m<sup>3</sup>; USA (NIOSH)  
USA. NIOSH Recommended  
Exposure Limits/ Can be found in concentrations of 5-8% in vinegar

TWA (Inhalation): 10 ppm  
25 mg/m<sup>3</sup>; USA (OSHA)  
USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

PEL (Inhalation): 10 ppm  
25 mg/m<sup>3</sup>; USA (Cal/OSHA)  
California permissible exposure limits for chemical contaminants  
(Title 8, Article 107)

STEL (Inhalation): 15 ppm

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37 mg/m<sup>3</sup>; USA (Cal/OSHA)  
California permissible exposure limits for chemical contaminants  
(Title 8, Article 107)

C (Inhalation): 40 ppm; USA (Cal/OSHA)  
California permissible exposure limits for chemical contaminants  
(Title 8, Article 107)

### 8.2 Appropriate engineering controls

Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

#### Pictograms



#### Eye/face protection

Tightly fitting safety goggles. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Ensure that eyewash stations and/or safety showers are close to the workstation location if working with concentrated product.

#### Skin protection

Wear protective gloves, such as PVC or other plastic material. Consult manufacturer specifications for further information.

#### Body protection

Wear protective clothing. Clothing with full length sleeves and pants should be worn. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Thermal hazards

No data available.

#### Environmental exposure controls

Do not let product enter drains.

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## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

|   |                    |
|---|--------------------|
| Appearance/form (physical state, color, etc.) | Colorless liquid.  |
| Odor  | No data available. |
| Odor threshold                                | No data available. |
| pH  | No data available. |
| Melting point/freezing point                  | No data available. |
| Initial boiling point and boiling range       | No data available. |
| Flash point                                   | No data available. |

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|  |                    |
|--|--------------------|
| Evaporation rate                       | No data available. |
| Flammability (solid, gas)              | No data available. |
| Upper/lower flammability limits        | No data available. |
| Upper/lower explosive limits           | No data available. |
| Vapor pressure                         | No data available. |
| Vapor density                          | No data available. |
| Relative density                       | No data available. |
| Solubility(ies)                        | No data available. |
| Partition coefficient: n-octanol/water | No data available. |
| Auto-ignition temperature              | No data available. |
| Decomposition temperature              | No data available. |
| Viscosity                              | No data available. |
| Explosive properties                   | No data available. |
| Oxidizing properties                   | No data available. |

### Other safety information

No data available.

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

Contact with incompatible materials. Sources of ignition. Exposure to heat.

### 10.2 Chemical stability

Stable under normal storage conditions.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, flames and sparks. Incompatible products. Keep away from open flames, hot surfaces and sources of ignition.

### 10.5 Incompatible materials

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Strong oxidizing agents

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Oxidizing agents, Soluble carbonates and phosphates, Hydroxides, Metals, Peroxides, permanganates, e.g. potassium permanganate, Amines, Alcohols, Nitric acid

### 10.6 Hazardous decomposition products

Thermal decomposition may produce: nitrogen oxides, carbon oxides, sulfur oxides, hydrogen cyanide

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Hazardous decomposition products formed under fire conditions. - Carbon oxides, Nitrogen oxides (NOx)

Other decomposition products - No data available

In the event of fire: see section 5

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Hazardous decomposition products formed under fire conditions. - Carbon oxides

Other decomposition products - No data available

In the event of fire: see section 5

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## SECTION 11: Toxicological information

### Information on toxicological effects

#### Acute toxicity

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Component 5  
LD50 Oral - Rat - 3,310 mg/kg

Component 5  
LC50 Inhalation - Mouse - 5620 ppm - 1 h  
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes.

Component 5  
LC50 Inhalation - Rat - 11.4 mg/l - 4 h

Component 5  
LD50 Skin - Rat - 1,112 mg/kg

EDTA  
LD50 Oral - Rat - male and female - 4,500 mg/kg

### **Skin corrosion/irritation**

Component 5  
LD50 Skin - Rat - 1,112 mg/kg

### **Respiratory or skin sensitization**

Component 5  
LC50 Inhalation - Mouse - 5620 ppm - 1 h  
Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes.

Component 5  
LC50 Inhalation - Rat - 11.4 mg/l - 4 h

### **Germ cell mutagenicity**

No data available.

### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

### **Reproductive toxicity**

No data available.

### **STOT-single exposure**

No data available.

### **STOT-repeated exposure**

No data available.

### **Aspiration hazard**

No data available.

### **Additional information**



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No data available.

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### SECTION 12: Ecological information

#### Toxicity

No data available on product

#### Persistence and degradability

No data available on product

#### Bioaccumulative potential

No data available on product

#### Mobility in soil

No data available on product

#### Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

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### SECTION 13: Disposal considerations

#### Disposal of the product

Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

#### Disposal of contaminated packaging

Dispose of as unused product.

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### SECTION 14: Transport information

#### DOT (US)

Not necessary.

#### IMDG

Not necessary.

#### IATA

Not necessary.

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### SECTION 15: Regulatory information

#### 15.1 Safety, health and environmental regulations specific for the product in question

##### SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

##### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

##### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

##### Pennsylvania Right To Know Components

CAS-No. 7732-18-5

CAS number: 64-19-7

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## BLB - Biomeme Lysis Buffer

CAS-No. 60-00-4

### New Jersey Right To Know Components

CAS-No. 7732-18-5

CAS number: 64-19-7

CAS-No. 60-00-4

### Massachusetts Right To Know Components

CAS number: 64-19-7

CAS-No. 60-00-4

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## SECTION 16: Other information

### 16.1 Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Biomeme, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Biomeme, Inc. has been advised of the possibility of such damages.