



Biomeme

BIOMEME, INC. Safety Data Sheet

DNA/RNA Preservation Buffer Tubes

SECTION 1: Identification

1.1 Product identifier

Product name	DNA/RNA Preservation Buffer Tubes
Brand	Biomeme, Inc.

1.4 Supplier's details

Name:	Biomeme, Inc.
Address:	401 N. Broad Street Suite 222 Philadelphia, PA 19108 USA
Telephone:	267-930-7707
Email:	support@biomeme.com
Emergency Number:	+1 703-741-5970
Emergency Information:	ChemTrec 2900 Fairview Park Drive, Falls Church, VA 22042 USA

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
- Flammable liquids, Cat. 2
- Acute toxicity, oral, Cat. 4
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A

2.2 GHS label elements, including precautionary

statementsPictogram

**Signal word****Danger****Hazard statement(s)**

H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation

Precautionary statement(s)

P264	Wash ... thoroughly after handling.
P280	Wear eye protection/face protection/protective gloves/protective clothing.
P305+P351+P338	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.
P337+P313	Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P210	Keep container tightly closed.
P233	Ground/bond container and receiving equipment.
P240	Use explosion-proof electrical/ventilating/lighting/.../ equipment.
P241	Do not eat, drink or smoke when using this product.
P270	Use only non-sparking tools.
P242	IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell,
P301+P312	Take precautionary measures against static discharge.
P243	Rinse mouth.
P330	IF ON SKIN: Wash with plenty of water/...
P302+P352	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P303+P361+P353	If skin irritation occurs: Get medical advice/attention.
P332+P313	In case of fire: Use ... to extinguish.
P370+P378	Take off contaminated clothing and wash it before reuse.
P362+P364	Store in a well-ventilated place. Keep cool.
P403+P235	Dispose of contents/container to ...
P501	Do not breathe dust/fume/gas/mist/vapors/spray.
P260	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P301+P330+P331	Wash contaminated clothing before reuse.
P363	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P304+P340	
P310	Immediately call a POISON CENTER/doctor/...
P321	Specific treatment (see ... on this label).
P405	Store locked up.

2.3 Other hazards which do not result in classification

Slip hazard from spills

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

1. Component 1 (trade secret)*

Concentration 25 - 50 % (volume)
- Serious eye damage/eye irritation, Cat. 2
H319 Causes serious eye irritation

2. Component 2 (trade secret)*

Concentration 70 - 90 % (volume)

3. Component 3 (trade secret)*

Concentration 0 - 20 % (volume)

4. Component 4 (trade secret)*

Concentration 0 - 20 % (weight)
- Flammable liquids, Cat. 3
- Skin corrosion/irritation, Cat. 1A
H226 Flammable liquid and vapor
H314 Causes severe skin burns and eye damage

5. Guanidine Thiocyanate

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

6. Component 6 (trade secret)*

Concentration 0 - 10 % (volume)

7. Component 7 (trade secret)*

Concentration 0 - 10 % (volume)

8. Component 8 (trade secret)*

Concentration 0 - 50 % (weight)
- Flammable liquids, Cat. 2
H225 Highly flammable liquid and vapor

9. Component 9 (trade secret)*

Concentration Not specified
- Acute toxicity, oral, Cat. 4
- Skin corrosion/irritation, Cat. 2
- Eye damage/irritation, Cat. 2A
H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

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).

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.
Move out of dangerous area.

If inhaled	<p>Remove person to fresh air and keep comfortable for breathing. Call a poisoncenter or doctor if you feel unwell.</p> <p>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.</p>
In case of skin contact water/shower	<p>Take off immediately all contaminated clothing. Rinse skin with</p> <p>for at least 15 minutes. Call a poison center or doctor if irritation develops or persists. Wash contaminated clothing before reuse.</p>
In case of eye contact if	<p>Rinse cautiously with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. Immediately call a poison center or doctor.</p>
If swallowed	<p>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.</p> <p>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.</p>

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.

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.

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Carbon oxides

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.

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.

SECTION 7: Handling and storage**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.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****1. Component 4 (trade secret)***

PEL (Inhalation): 25 mg/m³; USA
(OSHA) OSHA Annotated Table Z-1,
www.osha.gov

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

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

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

TLV® (Inhalation): 10 ppm, (ST) 15 ppm; USA
(ACGIH) OSHA Annotated Table Z-1, 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/m³; USA
(NIOSH)

USA. NIOSH Recommended
Exposure Limits/ Can be found in concentrations of 5-8% in vinegar

TWA (Inhalation): 10
ppm25 mg/m3; USA
(NIOSH)

USA. NIOSH Recommended
Exposure Limits/ Can be found in concentrations of 5-8% in vinegar

TWA (Inhalation): 10
ppm25 mg/m3; USA
(OSHA)

USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for
AirContaminants

PEL (Inhalation): 10 ppm
25 mg/m3; USA (Cal/OSHA)
California permissible exposure limits for chemical contaminants
(Title 8, Article 107)

STEL (Inhalation): 15
ppm 37 mg/m3; 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)

2. Component 8 (trade secret)*

PEL (Inhalation): 1000 ppm (OSHA)
OSHA Annotated Table Z-1, www.osha.gov

PEL (Inhalation): 1900 mg/m3 (OSHA)
OSHA Annotated Table Z-1,
www.osha.gov

PEL (Inhalation): 1000 ppm (Cal/OSHA)
OSHA Annotated Table Z-1,
www.osha.gov

REL (Inhalation): 1000 ppm (NIOSH)
OSHA Annotated Table Z-1,
www.osha.gov

TLV® (Inhalation): (ST) 1000 ppm; USA
(ACGIH)OSHA Annotated Table Z-1,
www.osha.gov

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.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties**

Appearance/form (physical state, color, etc.)	Colorless
liquid. Odor available.	No data
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.
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.

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

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

—
Alkali metals, Oxidizing agents, Peroxides

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Strong acids, Strong oxidizing agents, Bromine trifluoride

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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Other decomposition products - No data available
Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Lithium oxides
In the event of fire: see section 5

SECTION 11: Toxicological information**Information on toxicological****effects Acute toxicity**

LD50 Oral - Rat - 3,310 mg/kg

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.

LC50 Inhalation - Rat - 11.4 mg/l -

4 h LD50 Skin - Rat - 1,112 mg/kg

LD50 Oral - Rat - male and female - 4,500

mg/kg LD50 Oral - Rat - 10,470 mg/kg

LD50 Skin - Rabbit - 15,800 mg/kg

LD50 Inhalation - Rat - 30,000 mg/l -
4 h

Component 8: ACGIH: A3 Confirmed animal carcinogen with unknown relevance to humans.

Skin corrosion/irritation

LD50 Skin - Rat - 1,112 mg/kg

LD50 Skin - Rabbit - 15,800

mg/kg

OECD Test Guideline 404 Skin - Rabbit -

24 hResult: No skin irritation

Serious eye damage/irritation

OECD Test Guideline 405 Eyes -

RabbitResult: Moderate eye irritation

Respiratory or skin sensitization

LC50 Inhalation - Mouse - 5620 ppm - 1 h

Remarks: Sense Organs and Special Senses (Nose, Eye, Ear, and Taste):Eye:Conjunctive irritation. Sense
Organsand Special Senses (Nose, Eye, Ear, and Taste):Eye:Other. Blood:Other changes.

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

LD50 Inhalation - Rat - 30,000 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
carcinogenor 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 orpotential 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

No data available.

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

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.

SECTION 14: Transport information**DOT (US)**

Not necessary.

IMDG

Not necessary.

IATA

Not necessary.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations specific for the product in question****Massachusetts Right To Know Components**

CAS number: 60-00-4

CAS number: 64-19-7

CAS number: 64-17-5

New Jersey Right To Know Components

CAS number: 60-00-4

CAS number: 7732-18-5

CAS number: 64-19-7

CAS number: 64-17-5

CAS number: 7447-41-8

Pennsylvania Right To Know Components

CAS number: 60-00-4

CAS number: 7732-18-5

CAS number: 64-19-7

CAS number: 64-17-5

CAS number: 7447-41-8

SARA 313 Components

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

SARA 311/312 Hazards

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm

CAS-No. 64-17-5

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.