

## SAFETY DATA SHEET

### B.Mix

#### SECTION 1: Identification

##### 1.1. Product identifier

###### ▼ Trade name

B.Mix

##### 1.2. Relevant identified uses of the substance or mixture and uses advised against

###### ▼ Relevant identified uses of the substance or mixture

ASPYPE-Lung assay

Restricted to professional users.

###### Uses advised against

None known.

##### 1.3. Details of the supplier of the safety data sheet

###### ▼ Company and address

US headquarters

Biofidelity Inc.

5151 McCrimmon Parkway, Suite 230

Morrisville, NC 27560

United States

UK headquarters

Biofidelity, Ltd.

330 Cambridge Science Park

Milton Road, Cambridge CB4 0WN

United Kingdom

+1 919 659 3285 (please select Option 1 for Customer Service). Open from 8:30am - 5:00pm Eastern time (ET).

###### E-mail

customerservice@biofidelity.com

###### SDS date

11/22/2023

###### SDS Version

2.0

###### Date of previous version

3/30/2023 (1.0)

##### 1.4. Emergency telephone number

Contact the poison control at 1-800-222-1222 (24/7) or use the webPOISONCONTROL® ([triage.webpoisoncontrol.org](http://triage.webpoisoncontrol.org)) to get specific guidance for your case

See also section 4 "First aid measures".

#### SECTION 2: Hazard(s) identification

##### ▼ OSHA/HCS status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

##### 2.1. Classification of the substance or mixture

Resp. Sens. 1; H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

##### 2.2. Label elements

###### Hazard pictogram(s)



Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

## Signal word

Danger

### ▼ Hazard statement(s)

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (H334)

### Precautionary statement(s)

General

-

Prevention

Avoid breathing mist/vapour. (P261)

[In case of inadequate ventilation] wear respiratory protection. (P284)

Response

IF INHALED: Remove person to fresh air and keep comfortable for breathing. (P304+P340)

If experiencing respiratory symptoms: Call a POISON CENTER/doctor (P342+P311)

Storage

Store in a well-ventilated place. (P403)

Disposal

-

### Additional labelling

Not applicable.

## 2.3. Other hazards

### ▼ Additional warnings

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## SECTION 3: Composition/Information on Ingredients

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Proteinase, Tritirachium album serine	CAS No.: 39450-01-6	<1%	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334	

Where the concentration of an ingredient is expressed as a range the exact concentration has been withheld as a trade secret.

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### ▼ Other information

-

## SECTION 4: First-aid measures

### 4.1. ▼ Description of first aid measures

#### General information

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).

Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

#### Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

#### Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

If skin irritation occurs: Get medical advice/attention.

#### ▼ Eye contact

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

#### **Ingestion**

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

#### **Burns**

Not applicable.

#### 4.2. Most important symptoms and effects, both acute and delayed

None known.

#### 4.3. ▼ Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Information to medics

Bring this safety data sheet or the label from this product.

## **SECTION 5: Fire-fighting measures**

#### 5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

#### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

#### 5.3. ▼ Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Help Line on 1-800-222-1222 (24/7) in order to obtain further advice.

## **SECTION 6: Accidental release measures**

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

Avoid direct contact with spilled substances.

Ensure adequate ventilation, especially in confined areas.

Avoid inhalation of vapours from spilled material.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

#### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

#### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

## **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

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

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

#### **Recommended storage material**

No specific requirements

#### **Storage temperature**

Store at temperatures between -15°C to -25°C.

#### **Incompatible materials**

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No substances are listed with a permissible exposure limit (ref: 29 CFR 1910.1000 TABLE Z-1)

### 8.2. ▼ Exposure controls

Control is unnecessary if the product is used as intended.

#### General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

#### Exposure scenarios

There are no exposure scenarios implemented for this product.

#### Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

#### Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of vapours.

#### ▼ Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

#### Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

#### Generally

Use only protective equipment with a recognized certification mark, e.g. the UL mark.

#### Respiratory Equipment

No specific requirements

#### ▼ Skin protection

Recommended	Type/Category	Standards
It is recommended to wear a lab coat when handling this product.		

#### ▼ Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Where hand contact with the product may occur the use of gloves approved to relevant standards is recommended.	Nitrile	0,11-0,14	(> 480 min)	EN374-2



#### Eye protection

Type	Standards
Eye protection is normally not required during intended product use. If there is a risk of eye contact, use safety glasses.	Use equipment for eye protection tested and approved under appropriate government standards.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

#### Physical state

Liquid

#### Colour

Clear

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

**Odour**

Testing not relevant or not possible due to the nature of the product.

**Odour threshold (ppm)**

No information available as testing has not been completed.

**pH**

7.4

**Density (g/cm<sup>3</sup>)**

Testing not relevant or not possible due to the nature of the product.

**Kinematic viscosity**

Testing not relevant or not possible due to nature of the product.

Phase changes

**Melting point (°F)**

No information available as testing has not been completed.

**▼ Softening point/range (waxes and pastes) (°F)**

Does not apply to liquids.

**Boiling point (°F)**

-

**Boiling point (°C)**

100

**Vapour pressure**

No information available as testing has not been completed.

**Vapour density**

Testing not relevant or not possible due to the nature of the product.

**Decomposition temperature (°F)**

No information available as testing has not been completed.

**Evaporation rate (n-butylacetate = 100)**

No information available as testing has not been completed.

Data on fire and explosion hazards

**Flash point (°F)**

Testing not relevant or not possible due to nature of the product.

**Flammability (°F)**

Testing not relevant or not possible due to nature of the product.

**Auto-ignition temperature (°F)**

Testing not relevant or not possible due to nature of the product.

**Explosion limits (% v/v)**

Testing not relevant or not possible due to the nature of the product.

Solubility

**Solubility in water**

Soluble

**n-octanol/water coefficient**

No information available as testing has not been completed.

**Solubility in fat (g/L)**

No information available as testing has not been completed.

9.2. Other information

**Evaporation rate (n-butylacetate = 100)**

No information available as testing has not been completed.

**Other physical and chemical parameters**

No data available.

**Oxidizing properties**

Not applicable

## SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

- None known.
- 10.4. Conditions to avoid
  - None known.
- 10.5. Incompatible materials
  - Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.
- 10.6. Hazardous decomposition products
  - The product is not degraded when used as specified in section 1.

## SECTION 11: Toxicological information

- 11.1. Information on toxicological effects
  - Acute toxicity
    - Based on available data, the classification criteria are not met.
  - Skin corrosion/irritation
    - Based on available data, the classification criteria are not met.
  - Serious eye damage/irritation
    - Based on available data, the classification criteria are not met.
  - Respiratory sensitisation
    - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
  - Skin sensitisation
    - Based on available data, the classification criteria are not met.
  - Germ cell mutagenicity
    - Based on available data, the classification criteria are not met.
  - Carcinogenicity
    - Based on available data, the classification criteria are not met.
  - Reproductive toxicity
    - Based on available data, the classification criteria are not met.
  - STOT-single exposure
    - Based on available data, the classification criteria are not met.
  - STOT-repeated exposure
    - Based on available data, the classification criteria are not met.
  - Aspiration hazard
    - Based on available data, the classification criteria are not met.
  - Long term effects
    - None known.
  - Other information
    - None known.

## SECTION 12: Ecological information

- 12.1. Toxicity
  - No data available.
- 12.2. Persistence and degradability
  - No data available.
- 12.3. Bioaccumulative potential
  - No data available.
- 12.4. Mobility in soil
  - No data available.
- 12.5. Results of PBT and vPvB assessment
  - This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
- 12.6. Other adverse effects
  - None known.

## SECTION 13: Disposal considerations

- RCRA Hazardous waste ("P" and "U" list) (40 CFR 261)
  - None of the components are listed
- ▼ Specific labelling

Conforms to OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200 / revised 2012)

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
DOT	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

Additional information

Not dangerous goods according to DOT, IATA and IMDG.

14.6. Special precautions for user

Not applicable.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. ▼ U.S. Federal regulations

▼ **TSCA (the non-confidential portion)**

**Clean Air Act**

None of the components are listed

**EPCRA Section 302**

None of the components are listed

**EPCRA Section 304**

None of the components are listed

**EPCRA section 313**

None of the components are listed

**CERCLA**

None of the components are listed

State regulations

**California / Prop. 65**

None of the components are listed

**Massachusetts / Right To Know Act**

None of the components are listed

**New Jersey / Right To Know Act**

None of the components are listed

**New York / Right To Know Act**

None of the components are listed

**Pennsylvania / Right To Know Act**

None of the components are listed

15.4. Restrictions for application

Restricted to professional users.

15.5. Demands for specific education

No specific requirements.

15.6. Additional information

Not applicable.

15.7. Chemical safety assessment

No

15.8. Sources

OSHA Hazard Communication Standard (29 CFR 1910.1200)

## SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H315, Causes skin irritation.

H319, Causes serious eye irritation.

H334, May cause allergy or asthma symptoms or breathing difficulties if inhaled.

The full text of identified uses as mentioned in section 1

None known.

Abbreviations and acronyms

ACGIH = American Conference of Governmental Industrial Hygienists

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CERCLA = Comprehensive Environmental Response Compensation and Liability Act

DOT = Department of Transportation

EINECS = European Inventory of Existing Commercial chemical Substances

EPCRA = Emergency Planning and Community Right-To-Know Act

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HCIS = Hazardous Chemical Information System

HNOC = Hazards Not Otherwise Classified

IARC = International Agency for Research on Cancer

IATA = International Air Transport Association

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OECD = Organisation for Economic Co-operation and Development

OSHA = Occupational Safety and Health Administration

PBT = Persistent, Bioaccumulative and Toxic

RCRA = Resource Conservation and Recovery Act

RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail

RRN = REACH Registration Number

SARA = Superfund Amendments and Reauthorization Act

SCL = A specific concentration limit.

STEL = Short-term exposure limits

STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure

TSCA = The Toxic Substances Control Act

TWA = Time weighted average

UN = United Nations

UVBC = Unknown or variable composition, complex reaction products or of biological materials

VOC = Volatile Organic Compound

vPvB = Very Persistent and Very Bioaccumulative

### ▼ Additional information

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by HCS (29 CFR 1910.1200).

### ▼ The safety data sheet is validated by

EcoOnline

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: US-en