Biofidelity.

ASPYRE

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

SAFETY DATA SHEET

A.DNA

SECTION 1: Identification

1.1. Product identifier

▼Trade name

A.DNA

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

▼Relevant identified uses of the substance or mixture

ASPYRE-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

4/6/2023 (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) to get specific guidance for your case
See also section 4 “First aid measures”.

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

Not classified according to HCS (29 CFR 1910.1200)

2.2. Label elements

Hazard pictogram(s)

Not applicable.

Signal word

Not applicable.

▼Hazard statement(s)

Precautionary statement(s)

General
-
Prevention
-
Response
-
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
Potassium chloride	CAS No.: 7447-40-7	1-3%		
Ammonium sulphate	CAS No.: 7783-20-2	1-3%		

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**
In case of discomfort: bring the person into fresh air.

Skin contact
Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.

▼**Eye contact**
If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.

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.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds
Sulphur oxides
Nitrogen oxides (NO_x)
Some metal oxides
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.
Fire fighters should wear appropriate personal protective equipment.

SECTION 6: Accidental release measures

6.1. ▼Personal precautions, protective equipment and emergency procedures
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
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
Recommended storage material
No specific requirements
Storage temperature
Store at temperatures between -15°C to -25°C.
Incompatible materials
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

Wash hands after use.

Measures to avoid environmental exposure

No specific requirements.

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

Type	Class	Colour	Standards
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

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

No information available as testing has not been completed.

Density (g/cm³)
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
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
Based on available data, the classification criteria are not met.

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

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)

Potassium chloride is listed

Ammonium sulphate is listed

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

Ammonium sulphate is listed

New Jersey / Right To Know Act

None of the components are listed

New York / Right To Know Act

Ammonium sulphate is listed

Ammonium sulphate is regulated with a Treshold Reporting Quantity (TRQ) of: 100 pounds

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Pennsylvania / Right To Know Act

Ammonium sulphate is listed

Ammonium sulphate is hazardous to the environment (E)

—

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

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

In accordance with HCS (29 CFR 1910.1200(g)), a safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.

▼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