SAFETY DATA SHEET

# AVITI Dx 2x150 Cartridge CB Freestyle Low Output - Position 1

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

| | |
|---|---|
| *Trade name:* | AVITI Dx 2x150 Cartridge CB Freestyle Low Output - Position 1 |
| *Product no.:* | 820-00044 |

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

| | |
|---|---|
| *Relevant identified uses of the substance or mixture:* | Use as laboratory reagent |
| *Uses advised against :* | All other uses not recommended above |

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

| | |
|---|---|
| *Company and address:* | **Element Biosciences, Inc.**<br>10055 Barnes Canyon Rd. Suite 100<br>92121 San Diego, CA<br>United States<br>(619) 353-0300 |
| *Contact person:* | Element Biosciences, Inc. |
| *E-mail:* | info@elembio.com |
| *Revision:* | 04/09/2026 |
| *SDS Version:* | 2.0 |
| *Date of previous version:* | 04/09/2026 (2.0) |

### 1.4. Emergency telephone number

Healthcare professionals: Dial 0344 892 0111 to reach The National Poisons Information Service (NPIS) (24 hour service)
General public:
England - Dial 111 to reach NHS 111 (24 hour service)
Scotland - Dial 111 to reach NHS 24 (24 hour service)
Wales - Dial 111 or 0845 4647 to reach NHS Direct (24 hour service)
See section 4 “First aid measures”.

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.

### 2.2. Label elements

*Hazard pictogram(s):* Not applicable.

*Signal word:* Not applicable.

*Hazard statement(s):* Not applicable.

*Precautionary statement(s):*

*General:* Not applicable.

*Prevention:* Not applicable.

*Response:* Not applicable.

*Storage:* Not applicable.

*Disposal:* Not applicable.

*Hazardous substances:* Contains no substances that need to be listed on the label.

*Additional labelling:*

### 2.3. Other hazards

*Additional warnings:* This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification. This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Contains no components subject to disclosure requirements.

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

### Other information

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## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

*General information:* In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet.

| | |
|---|---|
| | 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. |
| *Eye contact:* | 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:* | If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.<br>In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. 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: FIREFIGHTING 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
No specific requirements.

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

| | |
|---|---|
| *Recommended storage material:* | Always store in containers of the same material as the original container. |
| *Storage conditions:* | No specific requirements. |
| *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 in the national list of substances with an occupational exposure limit.

**DNEL**

No data available.

**PNEC**

No data available.

### 8.2. Exposure controls
Apply general control to prevent unnecessary exposure

| | |
|---|---|
| *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. Pay special attention to hands, forearms and face. |
| *Measures to avoid environmental exposure:* | No specific requirements. |

### Individual protection measures, such as personal protective equipment

*Generally:* Use only UKCA marked protective equipment.

*Respiratory Equipment:*

| Type | Class | Colour | Standards | |
|---|---|---|---|---|
| Respiratory protection is not needed in the event of adequate ventilation. | | | | |

*Skin protection:*

| Recommended | Type/Category | Standards | |
|---|---|---|---|
| Dedicated work clothing should be worn. | - | - |  |

*Hand protection:*

| Material | Glove thickness (mm) | Breakthrough time (min.) | Standards | |
|---|---|---|---|---|
| Nitrile rubber, Natural rubber | | | |  |

*Eye protection:*

| Type | Standards | |
|---|---|---|
| Use splash goggles when eye contact due to splashing is possible | |  |

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

| | |
|---|---|
| *Physical state:* | Liquid |
| *Colour:* | No data available. |
| *Odour / Odour threshold:* | No data available. |
| *pH:* | No data available. |
| *Density (g/cm³):* | No data available. |
| *Kinematic viscosity:* | No data available. |
| *Particle characteristics:* | Does not apply to liquids. |

**Phase changes**

| | |
|---|---|
| *Melting point/Freezing point (°C):* | No data available. |
| *Softening point/range (°C):* | Does not apply to liquids. |
| *Boiling point (°C):* | No data available. |
| *Vapour pressure:* | No data available. |
| *Relative vapour density:* | No data available. |
| *Decomposition temperature (°C):* | No data available. |

**Data on fire and explosion hazards**

| | |
|---|---|
| *Flash point (°C):* | No data available. |
| *Flammability (°C):* | No data available. |
| *Auto-ignition temperature (°C):* | No data available. |
| *Lower and upper explosion limit (% v/v):* | No data available. |

**Solubility**

| | |
|---|---|
| *Solubility in water:* | No data available. |
| *n-octanol/water coefficient (LogKow):* | No data available. |
| *Solubility in fat (g/L):* | No data available. |

### 9.2. Other information

| | |
|---|---|
| *Oxidizing properties:* | No data available. |
| *Other physical and chemical parameters:* | No data available. |

## 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
Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

**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.

**Symptoms related to the physical, chemical and toxicological characteristics**
None known.

### 11.2. Information on other hazards

**Endocrine disrupting properties**
This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

**Other information**
None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity
Based on available data, the classification criteria are not met.

### 12.2. Persistence and degradability
Based on available data, the classification criteria are not met.

### 12.3. Bioaccumulative potential
Based on available data, the classification criteria are not met.

### 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. Endocrine disrupting properties
This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

### 12.7. Other adverse effects
None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods
Product is not covered by regulations on dangerous waste.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

### EWC code
Not applicable.

### 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: |
|---|---|---|---|---|---|---|
| ADR/ADN/RID | - | - | - | - | - | - |
| IMDG | - | - | - | - | - | - |
| IATA | - | - | - | - | - | - |

* Packing group
** Environmental hazards

*** UN number or ID number

**Additional information**

Not dangerous goods according to ADR/ADN/RID, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Maritime transport in bulk according to IMO instruments

No data available.

## SECTION 15: REGULATORY INFORMATION

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

| | |
|---|---|
| *Restrictions for application:* | No special. |
| *Demands for specific education:* | No specific requirements. |
| *Control of Major Accident Hazards (COMAH) - Categories / dangerous substances:* | Not applicable. |
| *Additional information:* | Not applicable. |
| *Sources:* | Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.<br>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as retained and amended in UK law.<br>Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law. |

### 15.2. Chemical safety assessment

No

## SECTION 16: OTHER INFORMATION

**Abbreviations and acronyms**

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
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EC = Effective concentration
ED = Effective dose
EINECS = European Inventory of Existing Commercial chemical Substances
EL = Effective Loading
ErC = Concentration associated with x% growth rate response
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
HP = Hazardous Property code
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IC = X maximum inhibitory concentration
IMDG = International Maritime Dangerous Goods
LC = Lethal concentration
LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans
LD = Lethal dose
LOAEC = Lowest Observed Adverse Effect Concentration
LOAEL = Lowest Observed Adverse Effect Level
LOEC = Lowest Observed Effect Concentration
LogKow = logarithm of the n-octanol/water coefficient
LL = Lethal Loading
M = For multiplication factor
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOAEC = No Observed Adverse Effect Concentration
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOELR = No Observable Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVCB = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

## Additional information

Not applicable.

**The safety data sheet is validated by**

Matthew Byrne

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a 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: GB-en