

**Material Safety Data Sheet** 

Version No.: 1.0(Rev. date : 2025-12-02)

# AccuTool<sup>TM</sup> sgRNA (aRGEN)

	Pro	oduct and company identification
Α.	Pı	roduct Name: AccuTool <sup>TM</sup> sgRNA (aRGEN)
В.	R	ecommended Use: For research and development use only.
	1	Not for pharmaceutical, household, or any other uses.
C.	Sı	upply Information
	$\subset$	Company: BIONEER
	$\subset$	Address: BIONEER Global Center 71, Techno 2-ro, Yuseong-gu, Daejeon, 34013, Republic of Korea
	C	Emergency telephone number: +82-1588-9788
)	Ha	zards identification
	Α.	Classification of the substance of mixture  Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008. This substance is not
		classified as dangerous according to Directive 67/548/EEC.
	В.	Label elements
		O Hazard pictograms: N/A
		○ Signal word: N/A
		O Hazard statements: N/A
		O Precautionary statements: N/A
	C.	Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.
		Hazards - Other hazards which do not result in classification - Hazard Risk
		Not applicable
١.	Со	mposition/information on ingredients
Com	2001	nent Synonyms CAS. No. Concentration(%)
RNA	A(OI	igoribonucleic Acid) No components need to be disclosed according to the applicable regulations

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#### 4. First aid measures

#### A. Description of first aid measures

a. In case of eye contact

Flush eyes with water as a precaution.

b. In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

c. If inhaled

Remove person to fresh air and keep comfortable for breathing.

d. If swallowed

Call a poison center or a doctor if you feel unwell.

e. Other medical advice or treatment

Treat symptomatically.

B. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

C. Indication of any immediate medical attention and special treatment needed

No information available.

## 5. Fire-fighting measures

A. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide.

Unsuitable extinguishing media: No data available

B. Special hazards arising from the substance or mixture

No data available

C. Special protective equipment and precautions for fire-fighters

Protection during firefighting:

Do not attempt to take action without suitable protective equipment.

Self-contained breathing apparatus.

Complete protective clothing.

#### 6. Accidental release measures

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A. Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Avoid breathing vapours, mist or gas. For personal protection see section 8

B. Environmental precautions and protective procedures

No special environmental precautions required.

C. Methods and material for containment and cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

## 7. Handling and storage

- A. Precautions for safe handling
  - O Precautions for safe handling

Ensure good ventilation of the work station.

Wear personal protective equipment.

O Hygiene measures

Do not eat, drink or smoke when using this product.

Always wash hands after handling the product.

- B. Conditions for safe storage
  - Storage conditions

Store in a well-ventilated place.

Refrigerated storage is recommended

Do not use frost-free (auto-defrost) refrigerators for storage.

# 8. Exposure controls / personal protection

A. Occupational Exposure Limits

No data available

B. Appropriate engineering controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Environmental exposure controls: Avoid release to the environment.

C. Personal protection equipment

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment

Eye protection: Safety glasses Hand protection: Protective gloves

Skin and body protection: Wear suitable protective clothing

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# 9. Physical and chemical properties

A. Appearance: White powder

B. Odor: No data available.

C. Odor Threshold: No data available.

D. pH:: No data available.

E. Melting point: No data available.

F. Initial boiling point: No data available.

G. Flash point: No data available.

H. Evaporation rate: No data available.

I. Flammability: No data available.

G. Lower explosion limit/Upper explosion limit: No data available.

K. Vapor pressure: No data available.

L. Water solubility: No data available.

M. Relative vapor density: No data available.

N. Density: No data available.

O. Partition coefficient: n-octanol/water: No data available.

P. Autoignition temperature: No data available.

Q. Decomposition temperature: No data available.

R. Viscosity: No data available.

S. Molecular weight: No data available.

## 10. Stability and Reactivity

A. Chemical stability and Possibility of hazardous reactions

The product is non-reactive under normal conditions of use, storage and transport.

Stable under normal conditions.

No dangerous reactions known under normal conditions of use.

B. Conditions to avoid: No information available

C. Incompatible materials: No data available.

D. Hazardous decomposition products: No information available

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## 11. Toxicological information

A. Information on exposure routes

No data available

B. Health hazards

- mixture

Acute toxicity (oral): Not classified

Acute toxicity (dermal): Not classified

Acute toxicity (inhalation): Not classified

C. Further information: No data available

## 12. Ecological information

- A. Ecotoxicity: Not classified; hazardous constituents are present below the concentration limits.
- B. Persistence and degradability: No data available
- C. Bioaccumulative potential: No data available
- D. Mobility in soil: No data available
- E. Other adverse effects

Ozone: No data available

Other adverse effects: No additional information available

## 13. Disposal considerations

A. Disposal method

Dispose of contents/container in accordance with licensed collector's sorting instructions.

B. Disposal precaution

Dispose contents and vessel in accordance with regulation by the waste disposal law.

# 14. Transport information



## DOT (US)

Not dangerous goods

#### **IMDG**

Not dangerous goods

## **IATA**

Not dangerous goods

# 15. Regulatory information

#### SARA 302 Components

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

## 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.

#### SARA 311/312 Hazards

No SARA Hazards

## Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

## 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.

# 16. Other information

A. List of references: Ministry of environment of KOREA, MSDS(Sima-Aldrich, Bioneer)

B. Date of issue/revision

First issue date: 2021-07-09Last revision date: 2025-12-02

C. Version: 1

Bioneer Corporation makes no warranty or representation to its completeness, accuracy or currency. This material is intended for use by persons with pertinent technical skills and at their discretion and risk. It is the responsibility of the user to determine the product's suitability for its intended use, the product's safe use, and the product's proper disposal. Disposal of hazardous material may be subject to federal, state or local lawsor regulations.





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