

## Material Safety Data Sheet

Version No.: 0.0(Rev. date : 2021-07-09)

**AccuTool™****Smallest size Cas9 from *campylobacter jejuni***

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**1. Product and company identification**

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Product Name : AccuTool™ Smallest size Cas9 from *campylobacter jejuni*

Recommended Use : For Research Use Only Supply Information

- Company : Bioneer
  - Address : 8-11 Munpyeongseo-ro, Daedeok-gu, Daejeon 34302, Republic of Korea
  - Emergency telephone number : 82-42-930-8777
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**2. Hazards identification**

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GHS-Classification

Not a hazardous substance or mixture.

Pictogram

No information available.

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**3. Composition/information on ingredients**

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Chemical name	Synonyms	CAS No.	Weight(%)
DNA		9007-49-2	100%

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**4. First aid measures**

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- . Eye contact : Rinse thoroughly with plenty of water for at least 15 minutes.
  - . Skin Contact : Rinse thoroughly with plenty of water for at least 15 minutes.  
Remove contaminated clothing.
  - . Inhalation : Move to fresh air. If breathing is difficult, give oxygen.
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. Ingestion : Rinse around the mouth with water.

Get medical attention if irritating or symptoms occur.

. The most important acute and delayed symptoms/effects : Not information available.

. Notes to Physician : Not information available.

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## 5. Fire-fighting measures

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. Suitable Extinguishing Media : Water-spray, carbon dioxide, extinguishing powder or foam.

. Flammable Properties : No information available.

. Protective Equipment and Precautions for Firefighters : Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

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## 6. Accidental release measures

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. Personal Precautions : Use proper personal protective equipment as indicated in Section 8.

. Environmental precautions : Do not allow entering sewers, surfaces or ground water.

. Methods for cleaning up : Sweep up or absorb material, then place it into container for disposal.

Wash spill site after material pickup is complete.

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## 7. Handling and storage

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. Handling : No special measures necessary.

. Storage : Store at -20°C.

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## 8. Exposure controls / personal protection

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. Chemical exposure limits, biological exposure limits etc. : The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

. Engineering Measures : No data available.

. Personal Protective Equipment

Respiratory Protection : Wear respiratory mask.

Eye/Face Protection : Safety goggles (glasses)

Skin Protection : Wear Chemical Safety gloves.

Body Protection : Wear protective clothes.

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## 9. Physical and chemical properties

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- . Appearance : White powder
  - . Odor : No information available
  - . Odor threshold : No information available
  - . pH : 7.0
  - . Melting point/Freezing point : No information available
  - . Initial boiling point/range : No information available
  - . Flash point : No information available
  - . Evaporation rate : No information available
  - . Flammability (Solid, Liquid) : No information available
  - . Flammability Limits upper/lower : No information available
  - . Vapor pressure : No information available
  - . Solubility : No information available
  - . Vapor density : No information available
  - . Viscosity : No information available
  - . n octanol/water : No information available
  - . Autoignition temperature : No information available
  - . Decomposition temperature : No information available
  - . Specific gravity : No information available
  - . Molecular weight : No information available
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## 10. Stability and Reactivity

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- . Stability : Stable under normal handling and storage conditions.
  - . Possibility of harmful response : No information available
  - . Conditions to avoid (electric discharge, impact, vibration etc.) : No information available
  - . Material to avoid : strong oxidants, fire
  - . Hazardous Decomposition Products : No information available
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## 11. Toxicological information

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. Principle routes of exposure

Respiratory: No information available.

Dermal : No information available.

Eye/Skin : No information available.

. Health effects

Acute toxicity : No data available.

skin corrosive or irritant : Can be skin irritation.

Serious eye damage or irritant : Can be eye irritation.

Respiratory irritability : No data available

Skin irritability : No data available Carcinogenicity : No data available

Germ cell mutagenicity : No data available Reproductive toxicity : No data available

Specific target organ toxicity (single exposure) : No data available

Specific target organ toxicity (repeated exposure) : No data available

Aspiration Hazard : No data available

. Numerical measures of toxicity(Acute toxicity estimates etc.) : No data available

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## 12. Ecological information

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Ecotoxicity effects: No data available

. Residual and degradability : No data available

. Bioaccumulation : No data available

. Mobility : No data available

. Other harmful effects : No data available

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## 13. Disposal considerations

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. Waste disposal method : Burn the material in a chemical incinerator equipped with an after burner and scrubber

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

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## 14. Transport information

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. Not regulated in the meaning of transport regulations.

IMDG : Non-hazardous for sea freight.

ADR : Non-hazardous for road transport.

RID : Non-hazardous for rail transport.

ICAO/IATA : Non-hazardous for air transport.

. UN Number : Not applicable

. UN Proper Shipping Name : Not applicable

. Transport hazard class : Not applicable

. Packing group : Not applicable

. Marine pollutant : Not applicable

. The special vehicle Safety measures : Not applicable

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## 15. Regulatory information

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. Regulation by Industrial safety and health act : Not information available

. Regulation by chemicals control act : Not information available

. Regulation by Safety control of dangerous substance act : Not information available

. Regulation by the waste control act : Not information available

. Regulation by other domestic and foreign regulatory : Not information available

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## 16. Other information

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