

Material Safety Data Sheet

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

AccuTool™ sgRNA (dRGEN)

1. Product and company identification

Product Name : AccuTool™ sgRNA (dRGEN)

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

GHS-Classification

Not a hazardous substance or mixture.

Pictogram

No information available.

3. Composition/information on ingredients

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

4. First aid measures

- . 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.
 - . Ingestion : Rinse around the mouth with water.
Get medical attention if irritating or symptoms occur.
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. The most important acute and delayed symptoms/effects : Not information available.

. Notes to Physician : Not information available.

5. Fire-fighting measures

. 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.

6. Accidental release measures

. 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.

7. Handling and storage

. Handling : No special measures necessary.

. Storage : Store at -20°C.

8. Exposure controls / personal protection

. 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.

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

- . 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

. 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

12. Ecological information

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

13. Disposal considerations

. 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.

14. Transport information

. 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

15. Regulatory information

. 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

16. Other information

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