

# SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Identification

Product Name QUANTOM™ Calibration Beads  
Product Number Q13102

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

Identified uses: Laboratory chemicals, Manufacture of substances

### Manufacturer

Aligned Genetics, Inc.  
FL 3, 28 Simindaero 327 beon-gil  
Dongan-gu, Anyang-si  
Gyeonggi-do 14055  
South Korea  
Telephone: +82-31-478-4185  
Fax: +82-31-360-4277  
E-mail: sales@logosbio.com

### Supplier

Aligned Genetics, Inc.  
FL 3, 28 Simindaero 327 beon-gil  
Dongan-gu, Anyang-si  
Gyeonggi-do 14055  
South Korea  
Telephone: +82-31-478-4185  
Fax: +82-31-360-4277  
E-mail: sales@logosbio.com

**Emergency telephone number** +82 31 478 4185

**For research use only. Not intended for human or animal diagnostic or therapeutic use.**

## 2. HAZARDS IDENTIFICATION

### [GHS classification]

#### Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008  
Not hazardous

### Label elements

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms None  
Signal word Not hazardous  
Hazard statements  
Not hazardous

Precautionary statements  
Not hazardous

**Other hazards**

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Mixtures**

Component	Synonyms	Formula	CAS No.	Weight %
Solid polymer microspheres	Polystyrene or Polystyrene divinylbenzene or polymethylmethacrylate	$(C_8H_8)_n$ or $(C_{24}H_{24})_n$ or $[CH_2C(CH_3)(CO_2CH_3)]_n$	9003-53-6 or 9003-70-7 or 9011-14-7	< 1%
Sodium azide	Hydrazoic acid sodium salt	$NaN_3$	26628-22-8	< 0.002%

### 4. FIRST AID MEASURES

**Description of first aid measures**

In case of eye contact	In case of contact, immediately flush eyes with copious amounts of water for at least 15 minutes.
In case of skin contact	In case of contact, immediately wash skin with copious amounts of water for at least 15 minutes.
After inhalation	Remove to fresh air if effects occur. Consult medical personnel.
After swallowing	Contact physician immediately.
Indication of any immediate medical attention and special treatment needed	Human effects not established. No specific antidote. Treatment based on sound judgment of physician and the individual reactions of the patient.

### 5. FIRE-FIGHTING MEASURES

**Extinguishing media**

**Suitable extinguishing media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry chemical.

**Special hazards arising from the substances or mixture**

Suspended material is not flammable. Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, & silver.

**Advice of fire-fighters**

**Protective equipment**

Not applicable

**Further information**

No data available

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**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

Any information given below is considered to be in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition source from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel. Wear vinyl gloves, soak up spill in paper toweling, and rinse area with water. Put all generated waste into an approved container and dispose of as waste. Observe all applicable federal, state, and local disposal laws.

**Environmental precautions**

No special measures are indicated.

**Methods and materials for containment and cleaning up**

No special measures are indicated.

**Reference to other sections**

For disposal see section 13.

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**7. HANDLING AND STORAGE**

**Precautions for safe handling**

Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH-approved dust respirator.

**Conditions for safe storage, including any incompatibilities**

Ventilation: Good room ventilation is adequate for most operations.

Respiratory Protection: None normally needed. In cases where there is a likelihood of inhalation exposure to dried particles, wear a NIOSH-approved dust respirator.

Storage: Store at 4-8°C. Keep refrigerated. Do not freeze. Keep container closed and fluorescent particles protected from light.

**Specific end use(s)**

No data available

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Control parameters**

Respiratory Protection: None normally needed.

Wash / Hygienic Practices: Wash with soap and water when leaving work area and before eating, smoking, and using restroom facilities.

**Exposure controls**

**Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas.

**Personal protective equipment**

<b>Respiratory protection</b>	In case of insufficient ventilation wear suitable respiratory equipment.
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<b>Hand protection</b>	Handle with impervious gloves. Chemical-resistant gloves should be worn whenever this material is handled. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough. Rinse and remove gloves immediately after use. Wash hands with soap and water.
<b>Eye protection</b>	Safety glasses with side-shields.
<b>Skin and Body protection</b>	Lightweight protective clothing.
<b>Control of Environmental exposure</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Appearance</b>	Form: translucent liquid suspension
<b>Odour</b>	No data available
<b>Odour Threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Initial boiling point and boiling range</b>	100°C
<b>Flash point</b>	No data available
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas)</b>	No data available
<b>Upper/lower flammability or explosive limits</b>	No data available
<b>Vapour pressure</b>	No data available
<b>Vapour density</b>	No data available
<b>Specific Gravity/Relative density</b>	No data available
<b>Solubility</b>	Dispersible in water
<b>Partition coefficient: n-octanol / water</b>	No data available
<b>Auto-ignition temperature</b>	No data available
<b>Decomposition temperature</b>	No data available
<b>Viscosity</b>	No data available
<b>Dynamic viscosity</b>	No data available

### Other safety information

No data available

## 10. STABILITY AND REACTIVITY

### Stability

**Stability** Stable under recommended storage conditions.  
**Reactivity** No data available

### Possibility of hazardous reactions

No data available

### Conditions to avoid

Product may irreversibly aggregate if frozen.

### Incompatible materials

No dangerous reaction known under conditions of normal use

### Hazardous decomposition products

Sodium azide is known to form explosive compounds when it is combined with metal halides and many heavy metals, such as lead, copper, gold, & silver.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

No data available

### Skin corrosion/irritation

No data available

### Serious eye damage/eye irritation

No data available

### Respiratory or skin sensitization

No data available

### Germ cell mutagenicity

No data available

### Carcinogenicity

<b>IARC</b>	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
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### 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

### Potential health effects

<b>Inhalation</b>	May be harmful if inhaled. May cause respiratory tract irritation.
<b>Ingestion</b>	May be harmful if swallowed.
<b>Skin</b>	May be harmful if absorbed through skin. May cause skin irritation.
<b>Eyes</b>	May cause eye irritation.

### Additional Information

To the best of our knowledge, the chemical, physical, and toxic properties of this product have not been thoroughly investigated. Sodium azide is known to be highly toxic.

Sodium azide may result in eye and skin irritation. Ingestion may result in nausea, headache, and vomiting. Sodium azide can cause cancer, or alter genetic material. Target organs include heart, nerves, and brain.

## 12. ECOLOGICAL INFORMATION

### Toxicity

No data available

### Persistence and degradability

No data available

### Bioaccumulative potential

No data available

### Mobility in soil

No data available

### Results of PBT and vPvB assessment

No data available

### Other adverse effects

No data available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number, the substance may be subject to special federal and state disposal regulations. If no codes are listed, the material must be disposed of in compliance with all Federal, State, and Local Regulations.

### **Product**

<b>CAS#</b>	<b>Waste Code</b>	<b>Regulated Name</b>
9003-53-6	Not listed	Not listed

9003-70-7	Not listed	Not listed
9011-14-7	Not listed	Not listed
26628-22-8	P105	Sodium azide

**Contaminated packaging**

Dispose of as unused product.

**14. TRANSPORT INFORMATION**

<b>UN number</b>	ADR/RID: -	IMDG: -	IATA: -
<b>UN proper shipping name</b>	ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IATA: Not dangerous goods
<b>Transport hazard class(es)</b>	ADR/RID: -	IMDG: -	IATA: -
<b>Packaging group</b>	ADR/RID: -	IMDG: -	IATA: -
<b>Environmental hazards</b>	ADR/RID: -	IMDG: -	IATA: -
<b>Special precautions for user</b>	No data available		

**15. REGULATORY INFORMATION**

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

**Safety, health, and environmental regulations/legislation specific for the substance or mixture**

No data available

**Chemical safety assessment**

No data available

**16. OTHER INFORMATION**

**Further information**

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The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and applies to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. . Aligned Genetics, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or contact with the above product. See the reverse side of the invoice or packing slip for additional terms and conditions of sale.

End of Safety Data Sheet