

SAFETY DATA SHEET

SECTION 1: Identification of the substance/ mixture and of the company/ undertaking

- a. Product Name : LUNA™ Standard Beads
- Product Number : B13101
- b. Relevant identified uses of the substance or mixture and uses advised against : **Identified uses**
Laboratory chemicals, Manufacture of substances
- c. Manufacturer & 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.

SECTION 2: Hazards identification

a. GHS classification

Classification according to Regulation (EC) No 1272/2008
Carcinogenicity (Category 1B)

b. GHS-Labeling

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word
Danger

Hazard statements
H350 – May cause cancer.

Precautionary statements
P201 – Obtain special instructions before use.
P202 – Do not handle until all safety precautions have been read and understood.
P280 – Wear protective gloves, eyewear, and clothing.

P308 + P313 – IF exposed or concerned: Get medical advice/attention.
P405 – Store locked up.
P501 – Dispose of contents/container to an approved waste disposal plant.

c. Other hazard which do not result in classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/ Information on ingredients

3b. Mixtures

Component:	Trypan blue
Synonyms:	Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino 4-hydroxynaphthalene-2,7-disulphonate]
Formula:	$C_{34}H_{24}N_6Na_4O_{14}S_4$
CAS-No.:	72-57-1
Weight%:	< 1%
Component:	Benzene, ethenyl-, homopolymer
Synonyms:	Polystyrene
Formula:	$(C_8H_8)_n$
CAS-No.:	9003-53-6
Weight%:	< 1%
Component:	Sodium azide
Synonyms:	Hydrazoic acid sodium salt
Formula:	NaN_3
CAS-No.:	26628-22-8
Weight%:	< 0.001%

SECTION 4: First aid measures

a. In case of eye contact

Flush eyes with water as a precaution.

b. In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

c. If inhaled

If breathed in, move person into the fresh air. If not breathing, give artificial respiration. Consult a physician.

d. If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

e. General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

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

The most important known symptoms and effects are described in the labeling (see section 2) and/or in section 11

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

No data available.

SECTION 5: Firefighting measures

- a. Suitable extinguishing media**
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- b. Specific hazards arising from the chemical**
Nature of decomposition products is not known.
- c. Special protective actions for fire-fighters**
Wear self-contained breathing apparatus for firefighting if necessary.
- d. Further information**
No data available.

SECTION 6: Accidental release measures

- a. Personal precautions, protective equipment and emergency procedures**
Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personal to safe areas. For personal protection see section 8.
- b. Environmental precautions**
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- c. Methods and materials for containment and cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- d. Reference to other sections**
For disposal see section 13.

SECTION 7: Handling and storage

- a. Precautions for safe handling**
Avoid exposure – obtain special instructions before use. Avoid inhalation of vapour or mist.
For precautions see section 2.
- b. Conditions for safe storage**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Non-combustible, acute toxic Cat.3 / toxic hazardous materials or hazardous materials causing chronic effects.
- c. Specific end use(s)**
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/ personal protection

- a. Control parameters**
Components with workplace control parameters
- b. Appropriate engineering controls**
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of a workday.
- c. Personal protective equipment**
Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substances at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of Environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a. Appearance	Form: liquid
b. Odor	No data available
c. Odor Threshold	No data available
d. pH	No data available
e. Melting point/freezing point	No data available
f. Initial boiling point and boiling range	100°C
g. Flash point	No data available
h. Evaporation rate	No data available
i. Flammability (solid, gas)	No data available
j. Lower explosion limit	No data available
k. Upper explosion limit	No data available
l. Vapour pressure	No data available
m. Vapour density	No data available
n. Specific Gravity/Relative density	No data available
o. Solubility	Dilutable
p. Partition coefficient: n-octanol / water	No data available
q. Auto-ignition temperature	No data available
r. Decomposition temperature	No data available
s. Viscosity	No data available
t. Explosive properties	No data available
u. Oxidizing properties	No data available

Other safety information

No data available

SECTION 10: Stability and reactivity

- a. Stability**
Stable under recommended storage conditions.
- b. Reactivity**
No data available.
- c. Possibility of hazardous reactions**
No data available.
- d. Conditions to avoid**
No data available.
- e. Incompatible materials**
Strong oxidizing agents.
- f. Hazardous decomposition products**
Other decomposition products – No data available.
In the event of fire: see section 5.

SECTION 11: Toxicological information

- a. Information on likely routes of exposure**
 - Inhalation**
May be harmful by inhalation.
 - Ingestion**
May be harmful if swallowed.
 - Skin**
May cause skin irritation in susceptible persons.
 - Eyes**
May cause eye irritation with susceptible persons.
 - Infection**
May be harmful if injected.
 - Carcinogenic effects**
Possibly carcinogenic.
 - Mutagenic effects**
Substances which cause concern for man owing to possible mutagenic effects but for which the available information is not adequate for making a satisfactory assessment.
- b. Delayed and immediate effects and also chronic effect from short and long term exposure**
 - 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

IARC

2B – Group 2B: Possible carcinogenic to humans
(Tetrasodium 3,3'-[(3,3'-dimethyl[1,1'-biphenyl]-4,4'-diyl)bis(azo)]bis[5-amino-4-hydroxynaphthalene-2,7-disulphonate])

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.

Additional information

RTECS: Not available.

SECTION 12: Ecological information

a. Toxicity

No data available.

b. Persistence and degradability

No data available.

c. Bioaccumulative potential

No data available.

d. Mobility in soil

No data available.

e. Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

f. Other adverse effects

No data available.

SECTION 13: Disposal considerations

a. Disposal methods

Offer surplus and non-recyclable solutions to a licensed disposal company.

b. Contaminates packaging

Dispose of as unused product.

SECTION 14: Transport information

UN number	ADR/RID: -	IMDG: -	IATA: -
-----------	------------	---------	---------

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

SECTION 15: Regulatory information

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

- a. Regulation under the Occupational Safety and Health Act**
No data available.
- b. Chemical safety assessment**
For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Further information

Copyright 2020. Aligned Genetics, Inc. The license is granted to make unlimited paper copies for internal use only.

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