

SAFETY DATA SHEET

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

- a. Product Name : Methylene Blue Stain, 0.02%
- Product Number : L13004, L13005
- 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
18 Gosan-ro 148beon-gil,
Gunpo-si,
Gyeonggi-do,
Republic of Korea
Telephone: +82-31-478-4185
Fax: +82-31-360-4277
E-mail: sales@logosbio.com
- Emergency telephone number : +82 31 478 4185

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SECTION 2: Hazards identification

a. GHS classification

Classification according to Regulation (EC) No 1272/2008
Acute toxicity, Oral (Category 4), H302

b. GHS-Labeling

Labeling according to Regulation (EC) No 1272/2008

Hazard pictograms



Signal word
Warning

Hazard statements
H302 – Harmful if swallowed.

Precautionary statements
P264 – Wash skin thoroughly after handling.
P270 – Do not eat, drink, or smoke when using this product.
P301+P312– IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician

if you feel unwell.
P330 – Rinse mouth.
P501 – Dispose of contents/container to an approved waste disposal plant.

c. Other hazard which do not result in classification

None

SECTION 3: Composition/ Information on ingredients

3b. Mixtures

Component:	Methylthioninium chloride hydrate
Synonyms:	Tetramethylthionine chloride, 3,7-bis(Dimethylamino)phenazathionium chloride
Formula:	C ₁₆ H ₁₈ ClN ₃ S·xH ₂ O
CAS-No.:	122965-43-9
Weight%:	< 1%

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 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. Most important symptoms and effects, both acute and delayed**
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**
No data available.
- 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 dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.

b. Environmental precautions

Do not let product enter drains.

c. Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

a. Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

b. Conditions for safe storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

c. Specific end use(s)

No data available.

SECTION 8: Exposure controls/ personal protection

a. Control parameters

Components with workplace control parameters.

b. Appropriate engineering controls

No data available.

c. Personal protective equipment

Hand protection

Protective gloves.

Eye protection

Tightly fitting safety goggles.

Skin and Body protection

Long sleeved clothing

Respiratory protection

No special protective equipment required.

Control of Environmental exposure

No data available.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

a. Appearance

Form: liquid
Color: bright blue

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	Soluble in water
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. Dynamic viscosity	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**
No data available.

SECTION 11: Toxicological information

- a. 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**

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

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.

Signs and Symptoms of Exposure

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Vomiting, Diarrhea, Nausea, Dizziness, Headache.

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. Other adverse effects

No data available.

SECTION 13: Disposal considerations**a. Disposal methods**

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

b. Contaminates packaging

Dispose of as unused product.

SECTION 14: Transport information

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

Further information

Not classified as dangerous in the meaning of transport regulations.

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

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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 is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Logos Biosystems, Inc. and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See the reverse side of invoice or packing slip for additional terms and conditions of sale.

End of Safety Data Sheet