

# SAFETY DATA SHEET

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

- a. Product Name : Trypan Blue Stain, 0.4%
- Product Number : T13001
- 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

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## 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.

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## 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%

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## 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. 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 labelling (see section 2) and/or in section 11
- g. Indication of any immediate medical attention and special treatment needed**  
No data available.

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## 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 not known.
- c. Special protective actions for fire-fighters**  
Wear self-contained breathing apparatus for firefighting if necessary.
- d. Further information**  
No data available.

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## 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.

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## 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.

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## 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.

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## **SECTION 9: Physical and chemical properties**

Information on basic physical and chemical properties

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

#### **Other safety information**

No data available

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## **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.

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## 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.

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**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.

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**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.

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**SECTION 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: no	IMDG Marine pollutant: no	IATA: no

<b>Special precautions for user</b>	No data available
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## 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.

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## 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 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