1. PRODUCT AND COMPANY IDENTIFICATION

**Identification**

<table>
<thead>
<tr>
<th>Product Name</th>
<th>Trypan Blue Stain Sterile, 0.4%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number</td>
<td>T13011</td>
</tr>
</tbody>
</table>

**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
Carcinogenicity (Category 1B)

**Label elements**

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.

Other hazards  
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.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>Synonyms</th>
<th>Formula</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trypan blue</td>
<td>Tetrasodium 3,3’-[(3,3’-dimethyl[1,1’-biphenyl]-4,4’-diyl)bis(azo)]bis[5- amino-4-hydroxynaphthalene-2,7-disulphonate]</td>
<td>C₃₄H₂₄N₆Na₄O₁₄S₄</td>
<td>72-57-1</td>
<td>&lt; 1%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

<table>
<thead>
<tr>
<th>General advice</th>
<th>Consult a physician. Show this safety data sheet to the doctor in attendance.</th>
</tr>
</thead>
<tbody>
<tr>
<td>If inhaled</td>
<td>If breathed in, move person into the fresh air. If not breathing, give artificial respiration. Consult a physician.</td>
</tr>
<tr>
<td>In case of skin contact</td>
<td>Wash off with soap and plenty of water. Consult a physician.</td>
</tr>
<tr>
<td>In case of eye contact</td>
<td>Flush eyes with water as a precaution.</td>
</tr>
<tr>
<td>If swallowed</td>
<td>Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</td>
</tr>
</tbody>
</table>

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

**Indication of any immediate medical attention and special treatment needed**

No data available

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### 5. FIRE-FIGHTING MEASURES

#### Extinguishing media

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

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

Nature of decomposition products not known.

#### Advice of fire-fighters

**Protective equipment**

Wear self-contained breathing apparatus for firefighting if necessary.

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### 6. ACCIDENTAL RELEASE MEASURES

#### 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.

#### Environmental precautions

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

#### 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.

#### Reference to other sections

For disposal see section 13.

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid exposure – obtain special instructions before use. Avoid inhalation of vapor or mist. For precautions see section 2.

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

Store in a 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

#### Specific end use(s)

Apart from the uses mentioned in section 1, no other specific uses are stipulated
8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Components with workplace control parameters

Exposure controls

Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Personal protective equipment

<table>
<thead>
<tr>
<th>Eye/face protection</th>
<th>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).</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin protection</td>
<td>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.</td>
</tr>
<tr>
<td>Body protection</td>
<td>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.</td>
</tr>
<tr>
<td>Respiratory protection</td>
<td>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).</td>
</tr>
<tr>
<td>Control of Environmental exposure</td>
<td>Prevent further leakage or spillage if safe to do so. Do not let product enter drains.</td>
</tr>
</tbody>
</table>

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Form: liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
</tbody>
</table>
Upper/lower flammability or explosive limits | No data available
Vapour pressure | No data available
Vapour density | No data available
Specific Gravity/Relative density | No data available
Water Solubility | No data available
Partition coefficient: n-octanol / water | No data available
Auto-ignition temperature | No data available
Decomposition temperature | No data available
Viscosity | No data available
Explosive properties | No data available
Oxidizing properties | No data available

Other safety information
No data available

10. STABILITY AND REACTIVITY

Stability
Stable under recommended storage conditions.
Reactivity No data available

Possibility of hazardous reactions
No data available

Conditions to avoid
No data available

Incompatible materials
Strong oxidizing agents

Hazardous decomposition products
Other decomposition products – No data available
In the event of fire: see section 5

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

| 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

Potential health effects

<table>
<thead>
<tr>
<th></th>
<th>May be harmful by inhalation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>May be harmful if swallowed</td>
</tr>
<tr>
<td>Ingestion</td>
<td>May cause skin irritation in susceptible persons</td>
</tr>
<tr>
<td>Skin</td>
<td>May cause eye irritation with susceptible persons</td>
</tr>
<tr>
<td>Eyes</td>
<td>May be harmful if injected</td>
</tr>
<tr>
<td>Infection</td>
<td>Possibly carcinogenic</td>
</tr>
</tbody>
</table>

| 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 |

Additional Information
RTECS: Not available

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
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.
Other adverse effects
No data available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

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

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>UN number</th>
<th>ADR/RID:</th>
<th>IMDG:</th>
<th>IATA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>ADR/RID: Not dangerous goods</td>
<td>IMDG: Not dangerous goods</td>
<td>IATA: Not dangerous goods</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>ADR/RID: -</td>
<td>IMDG: -</td>
<td>IATA: -</td>
</tr>
<tr>
<td>Packaging group</td>
<td>ADR/RID: -</td>
<td>IMDG: -</td>
<td>IATA: -</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>ADR/RID: no</td>
<td>IMDG Marine pollutant: no</td>
<td>IATA: no</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>No data available</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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
For this product, a chemical safety assessment was not carried out

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