SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Identification

Product Name          X-CLARITY™ Mounting Solution
Product Number        C13101

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

Identified uses: Laboratory chemicals, Manufacture of substances

Manufacturer

Logos Biosystems, Inc.
FL 2 & 3 28 Simindaero 327 beon-gil
Dongan-gu, Anyang-si
Gyeonggido 14055
South Korea
Telephone: +82-31-478-4185
Fax: +82-31-360-4277
E-mail: sales@logosbio.com

Supplier

Logos Biosystems, Inc.
FL 2 & 3 28 Simindaero 327 beon-gil
Dongan-gu, Anyang-si
Gyeonggido 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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.
This substance is not classified as dangerous according to Directive 67/548/EEC.

Label elements

The product does not need to be labelled in accordance with EC directives or respective national laws

Other hazards

None
3. COMPOSITION / INFORMATION ON INGREDIENTS

Mixtures

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trade secret</td>
<td>Trade secret</td>
<td>&gt; 60%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

<table>
<thead>
<tr>
<th>In case of eye contact</th>
<th>Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of skin contact</td>
<td>Immediately wash with water and soap and rinse thoroughly</td>
</tr>
<tr>
<td>After inhalation</td>
<td>If breathed in, move person into fresh air. If not breathing, give artificial respiration.</td>
</tr>
<tr>
<td>After swallowing</td>
<td>Never give anything by mouth to an unconscious person. Rinse mouth with water. If symptoms persist, consult doctor.</td>
</tr>
</tbody>
</table>

Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media
Use sand, water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substances or mixture
Carbon oxides, nitrogen oxides (NOx), Hydrogen iodide

Advice of fire-fighters

Protective equipment
Wear self-contained breathing apparatus for fire-fighting if necessary

Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Avoid breathing vapors, mist or gas.
See section 8 for personal protection.

Environmental precautions
Do not let product enter drains.
Methods and materials for containment and cleaning up
Keep in suitable, closed containers for disposal.

Reference to other sections
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7. HANDLING AND STORAGE

Precautions for safe handling
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Normal measures for preventive fire protection.

Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a dry, cool and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 – 8 °C

Specific end use(s)
No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Components with workplace control parameters

Exposure controls

Appropriate engineering controls
General industrial hygiene practice

Personal protective equipment

<table>
<thead>
<tr>
<th>Eye / face protection</th>
<th>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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</td>
</tr>
<tr>
<td>Body protection.</td>
<td>Impervious clothing, 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>Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Form: liquid</td>
</tr>
<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>Odour Threshold</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>&gt;200°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>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour density</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>1.46 at 25°C</td>
</tr>
<tr>
<td>Specific Gravity/Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol / water</td>
<td>No data available</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No data available</td>
</tr>
</tbody>
</table>

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
In the event of fire: see section 5

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral – rat: 20,000 mg/kg

Skin corrosion/irritation
Na data available

Serious eye damage/eye irritation
Na data available

Respiratory or skin sensitization
Na data available

Germ cell mutagenicity
Na data available

Carcinogenicity

| IARC | 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. |

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

| Inhalation | May be harmful if inhaled. May cause respiratory tract irritation |
| Ingestion  | May be harmful if swallowed. |
| Skin      | May be harmful if absorbed through skin. May cause skin irritation. |
| Eyes      | May cause eye irritation. |

Additional Information
RTECS: CZ2205000
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated
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**

**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
No data available

16. OTHER INFORMATION

Further information
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End of Safety Data Sheet