1. PRODUCT AND COMPANY IDENTIFICATION

**Identification**

<table>
<thead>
<tr>
<th>Identification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Name</td>
<td>Erythrosin B Stain</td>
</tr>
<tr>
<td>Product Number</td>
<td>L13002</td>
</tr>
</tbody>
</table>

**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
Gyeonggi-do 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
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
Acute toxicity, Oral (Category 4), H302

**Label elements**

Labeling according Regulation (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Hazard pictograms</th>
</tr>
</thead>
<tbody>
<tr>
<td>!</td>
</tr>
</tbody>
</table>

| 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+P330 – 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.

Other hazards
None

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>Erythrosin B sodium salt</td>
<td>2′,4′,5′,7′-Tetraiodofluorescein disodium salt</td>
<td>C_{20}H_{6}I_{4}O_{5}Na_{2}</td>
<td>568-63-8</td>
<td>&lt; 1%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

Description of first aid measures

<table>
<thead>
<tr>
<th>Description of first aid measures</th>
<th>Detailed Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>In case of eye contact</td>
<td>Flush eyes with copious amounts of water for at least 15 minutes with eyelids separated and call a physician.</td>
</tr>
<tr>
<td>In case of skin contact</td>
<td>Immediately wash skin with copious amounts of water followed by washing with soap and copious amounts of water. Remove all contaminated clothing.</td>
</tr>
<tr>
<td>After inhalation</td>
<td>If person is unconscious seek emergency medical attention, if person is conscious remove to fresh air and call a physician.</td>
</tr>
<tr>
<td>After swallowing</td>
<td>If person is unconscious seek emergency medical attention; never give anything by mouth to an unconscious person. If the person is conscious do not induce vomiting, seek medical advice immediately and show this container or label.</td>
</tr>
<tr>
<td>Indication of any immediate medical attention and special treatment needed</td>
<td>No data available</td>
</tr>
</tbody>
</table>

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable extinguishing media
Use dry chemical, CO₂ or appropriate foam.

Special hazards arising from the substances or mixture
No data available
Advice of fire-fighters
Protective equipment
No special measures required

Further information
No data available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation.

Environmental precautions
Prevent further leakage or spillage if safe to do so.

Methods and materials for containment and cleaning up
No data available

Reference to other sections
For disposal see section 13.

7. HANDLING AND STORAGE

Precautions for safe handling
Ensure adequate ventilation.

Conditions for safe storage, including any incompatibilities
Keep containers tightly closed in a cool, well-ventilated place

Specific end use(s)
No data available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters

Ingredients with limit values that require monitoring at the workplace
Not required

Additional information
The lists valid during the making were used as basis.

Exposure controls

Appropriate engineering controls
Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Respiratory protection</td>
<td>No special protective equipment required.</td>
</tr>
<tr>
<td>Hand protection</td>
<td>Protective gloves</td>
</tr>
<tr>
<td>Eye protection</td>
<td>Tightly fitting safety goggles</td>
</tr>
</tbody>
</table>
9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Form: liquid</td>
</tr>
<tr>
<td></td>
<td>Colour: red</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>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>
<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>Specific Gravity/Relative density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>Soluble in water</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
No data available

Hazardous decomposition products
No data available

11. TOXICOLOGICAL INFORMATION

Acute toxicity
LD50 Oral - rat - 1.840 mg/kg

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
No data available

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

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

Additional Information
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**
Not applicable

**Other adverse effects**
No data available

13. DISPOSAL CONSIDERATIONS

**Waste treatment methods**

**Product**
Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Contaminated packaging**

**Recommendation**
Disposal must be made according to official regulations.

**Recommended cleansing agents**
Water, if necessary together with cleansing agents.

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: -</td>
<td>IMDG: -</td>
<td>IATA: -</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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End of Safety Data Sheet