Material Safety Data Sheet
10X KBB Electrophoresis Buffer

Version: 1
Creation Date: 4/24/13
Revision Date: 4/24/13

Section 1. Product and Company Information

Product Name: 10X KBB Electrophoresis buffer
Product Numbers: KBB1001
Product Details: 1 ea. Tris-TAPS Electrophoresis buffer solution, 1 Liter.

Company: Sage Science, Inc.
Suite 3150
500 Cummings Center
Beverly, MA 01915
USA

Telephone: 978.922.1832
Fax: 617.812.0540
Emergency Phone: 978.922.1832

Section 2. Composition, Information on Ingredients

Solution containing the following components:

Electrophoresis Buffer Solution

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Chemical Name</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>77-86-1</td>
<td>201-064-4</td>
<td>Tris (hydroxymethyl)aminomethane</td>
<td>13%</td>
</tr>
<tr>
<td>29915-38-6</td>
<td>249-954-1</td>
<td>3-(Tris(hydroxymethyl)methylamino)propane-1-sulphonic acid (TAPS)</td>
<td>14%</td>
</tr>
<tr>
<td>60-00-4</td>
<td>200-449-4</td>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
<td>&lt;1%</td>
</tr>
<tr>
<td>7732-18-5</td>
<td>231-791-2</td>
<td>Water</td>
<td>73%</td>
</tr>
</tbody>
</table>
Section 3. Hazards Identification

Emergency Overview

Appearance: Clear Liquid

Potential Acute Health Effects: Not available
Potential Chronic Health Effects: Not available

Section 4. First Aid Measures

Skin: Wash with soap rinse with plenty of water.
Eyes: Flush eyes with water as a precaution
Ingestion: If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Section 5. Fire-Fighting Measures

No information available.

Section 6. Accidental Release Measures

Personal precautions
No information available.

Environmental precautions
No information available.

Section 7. Handling and Storage

Handling
Wash thoroughly after handling
Section 8. Exposure Controls/Personal Protection

Contains no substance with occupational exposure limit values. Facilities using this substance should be equipped with an eye-wash station.

Personal protective equipment

**Respiratory protection:** Respiratory protection is not required.
**Hand protection:** Handle with gloves.
**Eye protection:** Use safety glasses with side-shield conforming to OSHA 29 CFR 1910.133 and European Standard EN-166
**Clothing:** Wear appropriate clothing to prevent skin exposure.

Section 9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear</td>
</tr>
<tr>
<td>Odor</td>
<td>None</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Section 10. Stability and Reactivity

**Storage Stability**
Stable under recommended storage conditions.

**Materials to avoid**
No information available.

**Hazardous decompositions products**
No information available.

Section 11. Toxicological Information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epidemiology</td>
<td>No information found</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>No information found</td>
</tr>
<tr>
<td>Reproductive Effects</td>
<td>No information found</td>
</tr>
<tr>
<td>Mutagenicity</td>
<td>No information found</td>
</tr>
<tr>
<td>Neurotoxicity</td>
<td>No information found</td>
</tr>
</tbody>
</table>
Section 12. Ecological Information

No information available.

Section 13. Disposal Considerations

Product
Observe all federal, stated, and local environmental regulations.

Contaminated packaging
Dispose of as unused product.

Section 14. Transport Information

DOT (US)
Not dangerous goods.

IMDG
Not dangerous goods.

IATA
Not dangerous goods.

Section 15. Regulatory Information

US Federal

OSHA
Irritant. Not considered highly hazardous.

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that are reportable under SARA Title III, Section 313.

US State

Materials are not present on state lists from CA, PA, MN, MA, FL, or NJ.

California Prop 65
California No Significant Risk Level: None of the chemicals in this product are listed.

TSCA
This product does not contain components listed on the TSCA inventory.
Health & Safety Reporting List
None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules
None of the chemicals in this product are under a Chemical Test Rule.

CERCLA Hazardous Substances and corresponding RQs
None of the chemicals in this material have an RQ.

Clean Air Act
This material does not contain any hazardous air pollutants or Ozone depleters.

Clean Water Act
None of the chemicals in this product are listed as Hazardous Substances under the CWA.
None of the chemicals in this product are listed as Priority Pollutants under the CWA.
None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

Canada

DSL Status
This product does not contain components that are on the Canadian DSL or NDSL lists.

European/International Regulations
European Labeling in Accordance with EC Directives
Hazard Symbols:

Risk Phrases
R 68 Possible risk of irreversible effects.

Safety Phrases
S 24/25 Avoid contact with skin and eyes.
S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S 28A After contact with skin, wash immediately with plenty of water.

Section 16. Other Information

This information in this document is believed to be correct and current at the date of its authorship or revision. The information does not imply guarantee or warranty but should be used as a guide only. Users of this product should conduct their own investigations into safety precautions and local disposal requirements. Sage Science Inc., shall not be held liable for and damage from handling on contact with the product.