1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Electrophoresis Buffer 50X TAE
Product Number: 607
Brand: Edvotek
Supplier: Edvotek
1121 5th Street NW
Washington, DC 20001
Telephone: 1-800-338-6835 or 202-370-1500
Fax: 202-370-1501
Emergency Phone # (For both supplier and Manufacturer): 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards:
Irritant

Signal word
Warning

Pictogram

HMIS Classification:
Health hazard: 0
Flammability: 0
Physical hazard: 0

NFPA Rating:
Health hazard: 0
Fire: 0
Reactivity Hazard: 0
### Potential Health Effects:

**Inhalation:** May be harmful if inhaled.

**Skin:** May be harmful if absorbed. Excreted through skin. Causes skin irritation.

**Eyes:** May cause eye irritation.

**Ingestion:** May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
<td>200-449-4</td>
<td>60-00-4</td>
<td>50 mM</td>
</tr>
<tr>
<td>2-amino-2-(hydroxymethyl)-1,3-propanediol (TRIS)</td>
<td>201-064-4</td>
<td>77-86-1</td>
<td>242 g/L</td>
</tr>
<tr>
<td>Acetic acid</td>
<td>200-580-7</td>
<td>64-19-7</td>
<td>&lt; 6%</td>
</tr>
</tbody>
</table>

### 4. FIRST AID MEASURES

**General information**
No special measures required.

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

**In case of eye contact**
Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

**In case of skin contact**
Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.
5. **FIREFIGHTING MEASURES**

**Conditions of flammability**
Not flammable or combustible.

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

**Special protective equipment for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**
May emit toxic and/or irritating fumes under fire conditions.

6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions**
Prevent skin/eye contact. Use personal protective equipment as needed.

**Environmental precautions**
Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

**Methods and materials for containment and cleaning up**
Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. **HANDLING AND STORAGE**

**Precautions for safe handling**
No special measures necessary. Good laboratory technique should be used when handling.

**Conditions for safe storage**
No special measures necessary. Store at room temperature.

**Incompatible Products**
No known products.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment
Respiratory protection
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Avoid eye contact with this material. Wear chemical safety glasses with side shields or chemical safety goggles.

Skin and body protection
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid
Colour colorless
Odor Odorless

Safety data
pH 7-9
Melting point/freezing point no data available
Boiling point ~ 100°C
Flash point no data available
Ignition temperature no data available
Autoignition Temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density (water=1) 1.020
Water solubility no data available
Partition coefficient:
n-octanol/water no data available
Relative vapour Density no data available
Odour Threshold no data available
Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No further relevant data available.

Conditions to avoid
No further relevant data available.

Materials to avoid
No further relevant data available.

Hazardous decomposition products
No dangerous decomposition products known.
### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity LD/LC50 values</td>
<td>no data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>no data available</td>
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<td>Respiratory or skin sensitization</td>
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</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>No component of this product are listed by IARC, ACGIH, NTP and OSHA.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>no data available</td>
</tr>
<tr>
<td>Teratogenicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Synergistic effects</td>
<td>no data available</td>
</tr>
</tbody>
</table>

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>no data available</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>no data available</td>
</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>no data available</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>no data available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>no data available</td>
</tr>
</tbody>
</table>
13. DISPOSAL CONSIDERATIONS

Product
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards.

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

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards
16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.
1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Flash Blue™ DNA Stain  
**Product Number:** 609  
**Brand:** Edvotek  
**Supplier:** Edvotek  
1121 5th Street NW  
Washington, DC 20001  
**Telephone:** 1-800-338-6835 or 202-370-1500  
**Fax:** 202-370-1501  
**Emergency Phone # (For both supplier and Manufacturer):** 202-370-1500

2. HAZARDS IDENTIFICATION

**Emergency Overview**

**OSHA Hazards:**  
Skin Irritant 2  
Eye Irritant 2

**Signal Word**  
Warning

**Hazard Statements**  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 – May cause respiratory irritation

**Precautionary Statements**  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a
position comfortable for breathing. 
**P305 + P351 + P338 - IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

**HMIS Classification:**
Health hazard: 2
Flammability: 0
Physical hazard: 0

**NFPA Rating:**
Health hazard: 2
Reactivity Hazard: 0
Fire: 0

**Potential Health Effects:**
**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.
**Skin:** Harmful if absorbed through skin. Causes skin irritation.
**Eyes:** Causes eye irritation.
**Ingestion:** Harmful if swallowed.

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:**
3,7-Bis(dimethylamino) phenazathionium chloride
3,7-Bis(dimethylamino) phenothiazin-5-i mum chloride

**Formula:** $\text{C}_{16}\text{H}_{18}\text{ClN}_{3}\text{S}$

**Molecular Weight:** 319.85 g/mol

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,7-Bis(dimethylamino) phenazathionium chloride</td>
<td>200-515-2</td>
<td>61-73-4</td>
<td>&lt; 0.2%</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

In case of eye contact
Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

In case of skin contact
Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
May emit toxic and/or irritating fumes under fire conditions.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions
Prevent skin/eye contact. Use personal protective equipment as needed.

Environmental precautions
Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

Methods and materials for containment and cleaning up
Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.
7. HANDLING AND STORAGE

Precautions for safe handling
Avoid contact with skin and eyes. Good laboratory technique should be used when handling.

Conditions for safe storage
Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Products
Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSOANAL PROTECTION

Personal protective equipment
Respiratory protection
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection
Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection
Avoid eye contact with this material. Wear chemical safety glasses with side shields or chemical safety goggles.

Skin and body protection
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures
General industrial hygiene practice. Keep away from foodstuffs and beverages. Avoid contact with the eyes and skin. Do not eat, drink or smoke while working with products.
9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid
Colour Blue
Odor No odor

Safety data
pH no data available
Melting point/freezing point no data available
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Autoignition Temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density (water=1) no data available

Water solubility no data available
Partition coefficient: no data available
n-octanol/water no data available
Relative vapour Density no data available
Odour Threshold no data available
Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No further relevant data available

Conditions to avoid
No further relevant data available

Materials to avoid
No further relevant data available

Hazardous decomposition products
### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
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<tr>
<td>Carcinogenicity</td>
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<tr>
<td>Aspiration hazard</td>
<td>No data available</td>
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<td>Teratogenicity</td>
<td>No data available</td>
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<td>Synergistic effects</td>
<td>No data available</td>
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<td>Mobility in soil</td>
<td>No data available</td>
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<tr>
<td>Persistence and degradability</td>
<td>No data available</td>
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<tr>
<td>PBT and vPvB assessment</td>
<td>No data available</td>
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<td>Bioaccumulative potential</td>
<td>No data available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>No data available</td>
</tr>
</tbody>
</table>
### 14. DISPOSAL CONSIDERATIONS

**Product**
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

**Contaminated packaging**
Dispose of as unused product.

### 13. TRANSPORT INFORMATION

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

### 15. REGULATORY INFORMATION

**OSHA Hazards**
No known OSHA hazards.

**OSHA Hazards**
Target Organ Effect, Harmful by ingestion, Irritant.

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

**SARA 313 Components**
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
Acute Health Hazard, Chronic Health Hazard.
16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.
# Safety Data Sheet

Version 3  
Revision Date 01/10/2019

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>InstaStain Blue Cards</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand:</td>
<td>Edvotek</td>
</tr>
</tbody>
</table>
| Supplier: | Edvotek  
1121 5th Street NW  
Washington, DC  
20001 |
| Telephone: | 1-800-338-6835  
or 202-370-1500 |
| Fax: | 202-370-1501 |
| Emergency Phone #: (For both supplier and Manufacturer): | 202-370-1500 |

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**OSHA Hazards:**  
No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**HMIS Classification:**  
- Health hazard: 0  
- Flammability: 0  
- Physical hazard: 0

**NFPA Rating:**  
- Health hazard: 0  
- Fire: 0  
- Reactivity Hazard: 0

**Potential Health Effects:**  
- **Skin:** May be harmful if absorbed through skin. May cause skin irritation.  
- **Eyes:** May cause eye irritation.  
- **Ingestion:** May be harmful if swallowed.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms:
3,7-Bis(dimethylamino) phenazathionium chloride
3,7-Bis(dimethylamino) phenothiazin-5-ium chloride

Formula: $C_{16}H_{18}ClN_3S$

Molecular Weight: 319.85 g/mol

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<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
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<tbody>
<tr>
<td>3,7-Bis(dimethylamino) phenazathionium chloride</td>
<td>200-515-2</td>
<td>61-73-4</td>
<td>&lt; 0.2%</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

In case of skin contact
Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

In case of eye contact
Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.
5. **FIREFIGHTING MEASURES**

- **Conditions of flammability**
  Not flammable or combustible.

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

- **Special protective equipment for firefighters**
  Wear self contained breathing apparatus for fire fighting if necessary.

- **Hazardous combustion products**
  May emit toxic and/or irritating fumes under fire conditions.

6. **ACCIDENTAL RELEASE MEASURES**

- **Personal precautions**
  Prevent skin/eye contact. Use personal protective equipment as needed.

- **Environmental precautions**
  Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

- **Methods and materials for containment and cleaning up**
  Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. **HANDLING AND STORAGE**

- **Precautions for safe handling**
  Avoid contact with skin and eyes. Good laboratory technique should be used when handling.

- **Conditions for safe storage**
  Keep containers tightly closed in a dry, cool and well-ventilated place.

- **Incompatible Products**
  Strong oxidizing agents
8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal protective equipment**

**Respiratory protection**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**Skin and body protection**
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

**Hygiene measures**
General industrial hygiene practice. Keep away from foodstuffs and beverages. Avoid contact with the eyes and skin. Do not eat, drink or smoke while working with products.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

**Eye protection**

**Appearance**
Form paper
Colour Blue
Odor No odor

**Safety data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
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<td>Melting point/freezing point</td>
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<td>Flash point</td>
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</tr>
<tr>
<td>Ignition temperature</td>
<td>no data available</td>
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<tr>
<td>Autoignition Temperature</td>
<td>no data available</td>
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Lower explosion limit  no data available
Upper explosion limit no data available
Vapour pressure  no data available
Density (water=1)  no data available

Water solubility  no data available
Partition coefficient:
n-octanol/water  no data available
Relative vapour Density  no data available
Odour Threshold  no data available
Evaporation rate  no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No further relevant data available.

Conditions to avoid
No further relevant data available.

Materials to avoid
No further relevant data available.

Hazardous decomposition products
### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity LD/LC50 values</td>
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<tr>
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<td>Germ cell mutagenicity</td>
</tr>
<tr>
<td>skin corrosion/irritation</td>
<td>Carcinogenicity</td>
</tr>
<tr>
<td></td>
<td>No components of this product are listed by IARC, ACGIH, NTP and OSHA.</td>
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<tr>
<td>reproductive toxicity</td>
<td>Aspiration hazard</td>
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<td>teratogenicity</td>
<td>Synergistic effects</td>
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<td></td>
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<td>PBT and vPvB assessment</td>
</tr>
<tr>
<td>bioaccumulative potential</td>
<td>Other adverse effects</td>
</tr>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

no data available
14. DISPOSAL CONSIDERATIONS

**Product**
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

**Contaminated packaging**
Dispose of as unused product.

13. TRANSPORT INFORMATION

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods

15. REGULATORY INFORMATION

**OSHA Hazards**
No known OSHA hazards

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

**SARA 313 Components**
**SARA 313:** This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

**SARA 311/312 Hazards**
No SARA Hazards
16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.
1. PRODUCT AND COMPANY IDENTIFICATION

**Product name:** Practice Gel loading Solution  
**Product Number:**  
**Brand:** Edvotek  
**Supplier:** Edvotek  
1121 5th Street NW  
Washington, DC  
20001  

**Telephone:** 1-800-338-6835  
or 202-370-1500  
**Fax:** 202-370-1501  
**Emergency Phone #:** 202-370-1500

2. HAZARDS IDENTIFICATION

**Emergency Overview**  
OSHA Hazards:  
No known OSHA hazards  
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

**HMIS Classification:**  
Health hazard: 0  
Flammability: 0  
Physical hazard: 0

**NFPA Rating:**  
Health hazard: 0  
Fire: 0

**Reactivity Hazard:** 0

**Potential Health Effects:**  
**Inhalation** May be harmful if inhaled  
**Skin**- May be harmful if absorbed through skin. Causes skin irritation.  
**Eyes**- May cause eye irritation.  
**Ingestion**-May be harmful if swallowed.
3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
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<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
<td>200-449-4</td>
<td>60-00-4</td>
<td>&lt; 100 mM</td>
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<tr>
<td>Bromophenol blue</td>
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<td>115-39-9</td>
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<td>Glycerol</td>
<td>200-289-5</td>
<td>56-81-5</td>
<td>&lt; 50%</td>
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</table>

4. FIRST AID MEASURES

General information
No special measures required.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

In case of skin contact
Wash off with soap and plenty of water. Get medical attention if symptoms develop.

In case of eye contact
Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
May emit toxic and/or irritating fumes under fire conditions.
6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Prevent skin/eye contact. Use personal protective equipment as needed.

**Environmental precautions**
Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

**Methods and materials for containment and cleaning up**
Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. HANDLING AND STORAGE

**Precautions for safe handling**
No special measures necessary. Good laboratory technique should be used when handling.

**Conditions for safe storage**
No special measures necessary. Store at room temperature.

**Incompatible Products**
Strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Personal protective equipment**

**Respiratory protection**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Eye protection
Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid
Color Blue
Odor No odor

Safety data
pH 7-9
Melting point/freezing point no data available
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Autoignition Temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density (water=1) 1.0
Water solubility no data available
Partition coefficient:
n-octanol/water no data available
Relative vapour Density no data available
Odour Threshold no data available
Evaporation rate no data available
10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
No further relevant data available.

**Conditions to avoid**
No further relevant data available.

**Materials to avoid**
No further relevant data available.

**Hazardous decomposition products**
No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

**Acute toxicity LD/LC50 values**
No data available

**Serious eye damage/eye irritation**
No data available

**Skin corrosion/irritation**
No data available

**Respiratory or skin sensitization**
No data available

**Germ cell mutagenicity**
No data available

**Carcinogenicity**
No components of this product are listed by IARC, ACGIH, NTP and OSHA.

**Reproductive toxicity**
No data available

**Teratogenicity**
No data available

**Aspiration hazard**
No data available

**Synergistic effects**
No data available
### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Mobility in soil</th>
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<table>
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<tr>
<th>Persistence and degradability</th>
<th>PBT and vPvB assessment</th>
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<table>
<thead>
<tr>
<th>Bioaccumulative potential</th>
<th>Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

**Product**
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

**Contaminated packaging**
Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods
15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards

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

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards

16. OTHER INFORMATION

For educational use only. Not intended for human or animal diagnostic or therapeutic uses.

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRENTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.
# Safety Data Sheet

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>Ready to load DNA</th>
<th>Telephone:</th>
<th>1-800-338-6835 or 202-370-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number:</td>
<td></td>
<td>Fax:</td>
<td>202-370-1501</td>
</tr>
<tr>
<td>Brand:</td>
<td>Edvotek</td>
<td>Emergency Phone # (For both supplier and Manufacturer):</td>
<td>202-370-1500</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Edvotek</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>1121 5th Street NW</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Washington, DC</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>20001</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**OSHA Hazards:**
No known OSHA hazards
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**HMIS Classification:**
Health hazard: 0
Flammability: 0
Physical hazard: 0

### NFPA Rating:
- Health hazard: 0
- Fire: 0
- Reactivity Hazard: 0

**Potential Health Effects:**
- **Inhalation:** May be harmful if inhaled.
- **Skin:** May be harmful if absorbed through skin. May cause skin irritation.
- **Eyes:** May cause eye irritation.
- **Ingestion:** May be harmful if swallowed.
3. **COMPOSITION/INFORMATION ON INGREDIENTS**

No ingredients are hazardous according to OSHA criteria.

4. **FIRST AID MEASURES**

**General information**
No special measures required.

**If inhaled**
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

**In case of skin contact**
Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

**In case of eye contact**
Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

**If swallowed**
Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

5. **FIREFIGHTING MEASURES**

**Conditions of flammability**
Not flammable or combustible.

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

**Special protective equipment for firefighters**
Wear self contained breathing apparatus for fire fighting if necessary.

**Hazardous combustion products**
No known products.
6. **ACCIDENTAL RELEASE MEASURES**

**Personal precautions**
Prevent skin/eye contact. Use personal protective equipment as needed.

**Environmental precautions**
Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

**Methods and materials for containment and cleaning up**
Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. **HANDLING AND STORAGE**

**Precautions for safe handling**
No special measures necessary. Good laboratory technique should be used when handling.

**Conditions for safe storage**
No special measures necessary. Store at room temperature.

**Incompatible Products**
No known products.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Personal protective equipment**

**Respiratory protection**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
Eye protection
Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid
Colour blue/orange
Odor no data available

Safety data
pH no data available
Melting point/freezing point no data available
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Autoignition Temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density (water=1) no data available
Water solubility no data available
Partition coefficient:
n-octanol/water no data available
Relative vapour Density no data available
Odour Threshold no data available
Evaporation rate no data available
10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.

**Conditions to avoid**
No further relevant data available.

**Possibility of hazardous reactions**
No further relevant data available.

**Hazardous decomposition products**
No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

**Acute toxicity LD/LC50 values**
No data available

**Respiratory or skin sensitization**
No data available

**Serious eye damage/eye irritation**
No data available

**Germ cell mutagenicity**
No data available

**Skin corrosion/irritation**
No data available

**Carcinogenicity**
No component of this product are listed by IARC, ACGIH, NTP and OSHA.

**Reproductive toxicity**
No data available

**Aspiration hazard**
No data available

**Teratogenicity**
No data available

**Synergistic effects**
No data available
12. ECOLOGICAL INFORMATION

Toxicity  
no data available

Mobility in soil  
no data available

Persistence and degradability  
no data available

PBT and vPvB assessment  
no data available

Bioaccumulative potential  
no data available

Other adverse effects  
no data available

13. DISPOSAL CONSIDERATIONS

Product  
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

Contaminated packaging  
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)  
Not dangerous goods

IMDG  
Not dangerous goods

IATA  
Not dangerous goods
15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards

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

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards.

16. OTHER INFORMATION

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Safety Data Sheet

Version 2
Revision Date 09/24/2013

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UltraSpec Agarose™
Product Number: 605
Brand: Edvotek
Supplier: Edvotek
Address: 1121 5th Street NW
          Washington, DC 20001
Telephone: 1-800-338-6835 or 202-370-1500
Fax: 202-370-1501
Emergency Phone #: 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards:
No known OSHA hazards.

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS).

HMIS Classification:
Health hazard: 0
Flammability: 0
Physical hazard: 0

NFPA Rating:
Health hazard: 0
Fire: 0
Reactivity Hazard: 0

Potential Health Effects:
Inhalation: May be harmful if inhaled.
Skin: May be harmful if absorbed through skin. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.
3. COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.

4. FIRST AID MEASURES

General information
No special measures required.

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult doctor in case of complaints.

In case of eye contact
Flush eyes with water as a precaution. Get medical attention immediately if irritation persists.

If swallowed
Never give anything by mouth to an unconscious person. Rinse mouth with water. Get medical attention if symptoms develop.

In case of skin contact
Immediately wash off with soap and plenty of water. Get medical attention if symptoms develop.

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

Special protective equipment for firefighters
Wear self contained breathing apparatus for fire fighting if necessary.

Hazardous combustion products
No known products
6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**
Prevent skin/eye contact. Use personal protective equipment as needed.

**Environmental precautions**
Dilute with plenty of water. Do not allow to enter sewers/surface or ground water.

**Methods and materials for containment and cleaning up**
Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. HANDLING AND STORAGE

**Precautions for safe handling**
No special measures necessary. Good laboratory technique should be used when handling.

**Conditions for safe storage**
No special measures necessary. Store at room temperature.

**Incompatible Products**
No known products.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

**Personal protective equipment**

**Respiratory protection**
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand protection**
Wear protective gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices.
**Eye protection**  
Avoid eye contact with this material. Wear chemical safety goggles.

**Skin and body protection**  
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.

**Hygiene measures**  
Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

---

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance**
- Form: powder
- Color: colorless
- Odor: no data available

**Safety data**
- pH: no data available
- Melting point/freezing point: no data available
- Boiling point: no data available
- Flash point: no data available
- Ignition temperature: no data available
- Autoignition Temperature: no data available
- Lower explosion limit: no data available
- Upper explosion limit: no data available
- Vapor pressure: no data available
- Density (water=1): no data available
- Water solubility: no data available
- Partition coefficient:
  - n-octanol/water: no data available
- Relative vapour Density: no data available
- Odour Threshold: no data available
- Evaporation rate: no data available
10. STABILITY AND REACTIVITY

**Chemical stability**
Stable under recommended storage conditions.

**Possibility of hazardous reactions**
No further relevant data available.

**Conditions to avoid**
No further relevant data available.

**Materials to avoid**
No further relevant data available.

**Hazardous decomposition products**
No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

**Acute toxicity LD/LC50 values**
no data available

**Respiratory or skin sensitization**
no data available

**Serious eye damage/eye irritation**
no data available

**Germ cell mutagenicity**
no data available

**Skin corrosion/irritation**
no data available

**Carcinogenicity**
No components of this product are listed by IARC, ACGIH, NTP and OSHA.

**Reproductive toxicity**
no data available

**Aspiration hazard**
no data available

**Teratogenicity**
no data available

**Synergistic effects**
no data available
### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
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</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
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<td><strong>Persistence and degradability</strong></td>
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<td><strong>Bioaccumulative potential</strong></td>
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<tr>
<td><strong>Mobility in soil</strong></td>
<td>no data available</td>
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<td><strong>PBT and vPvB assessment</strong></td>
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</tr>
<tr>
<td><strong>Other adverse effects</strong></td>
<td>no data available</td>
</tr>
</tbody>
</table>

### 13. DISPOSAL CONSIDERATIONS

**Product**
Dispose of unused product, residues, and containers according to local, regional, state, and national regulations.

**Contaminated packaging**
Dispose of as unused product.

### 14. TRANSPORT INFORMATION

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods
15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards.

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

SARA 313 Components
SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards
No SARA Hazards.

16. OTHER INFORMATION

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