Safety Data Sheet

Version 2
Revision Date 12/17/2018

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 10X Gel loading Solution
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 #: 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>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
<td>200-449-4</td>
<td>60-00-4</td>
<td>&lt; 100 mM</td>
</tr>
<tr>
<td>Bromophenol blue</td>
<td>201-064-4</td>
<td>115-39-9</td>
<td>&lt; 0.10%</td>
</tr>
<tr>
<td>Glycerol</td>
<td>200-289-5</td>
<td>56-81-5</td>
<td>&lt; 50 %</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.

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

<table>
<thead>
<tr>
<th><strong>Appearance</strong></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Form</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>Blue</td>
</tr>
<tr>
<td><strong>Odor</strong></td>
<td>No odor</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Safety data</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>pH</strong></td>
</tr>
<tr>
<td><strong>Melting point/freezing point</strong></td>
</tr>
<tr>
<td><strong>Boiling point</strong></td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
</tr>
<tr>
<td><strong>Ignition temperature</strong></td>
</tr>
<tr>
<td><strong>Autoignition Temperature</strong></td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
</tr>
<tr>
<td><strong>Density (water=1)</strong></td>
</tr>
<tr>
<td><strong>Water solubility</strong></td>
</tr>
<tr>
<td><strong>Partition coefficient:</strong></td>
</tr>
<tr>
<td><strong>n-octanol/water</strong></td>
</tr>
<tr>
<td><strong>Relative vapour Density</strong></td>
</tr>
<tr>
<td><strong>Odour Threshold</strong></td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
</tr>
</tbody>
</table>
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 component 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></th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Persistence and degradability</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>PBT and vPvB assessment</strong></td>
<td>no data available</td>
</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

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

Product name: DNA in solution
Product Number: 332, 333, 334, 336, 369, 701, 702, 703, 704
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:
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.
### COMPOSITION/INFORMATION ON INGREDIENTS

No ingredients are hazardous according to OSHA criteria.

### 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.

### 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
- **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>Toxicity</th>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

<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

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Safety Data Sheet

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 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 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**
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/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
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

**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 12/18/2018**

## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>Ethidium Bromide</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number:</td>
<td>2000, 2002, 20005</td>
</tr>
<tr>
<td>Brand:</td>
<td>Edvotek</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Edvotek</td>
</tr>
<tr>
<td></td>
<td>1121 5(^{th}) Street NW</td>
</tr>
<tr>
<td></td>
<td>Washington, DC</td>
</tr>
<tr>
<td></td>
<td>20001</td>
</tr>
<tr>
<td>Telephone:</td>
<td>1-800-338-6835</td>
</tr>
<tr>
<td></td>
<td>or 202-370-1500</td>
</tr>
<tr>
<td>Fax:</td>
<td>202-370-1501</td>
</tr>
<tr>
<td>Emergency Phone # (For both supplier and Manufacturer):</td>
<td>202-370-1500</td>
</tr>
</tbody>
</table>

## 2. HAZARDS IDENTIFICATION

### Emergency Overview

**GHS Classification**  
Acute toxicity, Oral (Category 4)  
Acute toxicity, Inhalation (Category 2)  
Germ Cell mutagenicity (Category 2)  
Skin irritant (Category 2)

**Signal word**  
Danger

### Pictograms

**Hazard statement(s)**  
H302 Harmful if swallowed.  
H330 Fatal if inhaled.  
H341 Suspected of causing genetic defects.
Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P281 Use personal protective equipment as required.

P310
Immediately call a POISON CENTER or doctor/ physician

HMIS Classification:
Health hazard:  3
Flammability:  0
Physical hazard:  0

NFPA Rating:
Health hazard:  4
Fire:  0
Reactivity Hazard:  0

OSHA Hazards
Highly toxic by inhalation, Harmful by ingestion, Mutagen

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: EtBr
3,8-Diamino-5-ethyl-6-phenylphenanthrindinium bromide
Homidium bromide
Formula: \( C_{21}H_{20}BrN_3 \)
Molecular Weight: 394.31 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>3,8-Diamino-1-ethyl-6-phenylphenanthrindinium bromide</td>
<td>214-984-6</td>
<td>1239-45-8</td>
<td>&lt; 25 ng/ul</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

If inhaled
If breathed in, move person into fresh air. If not breathing, give artificial respiration.

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
Emits toxic fumes.

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
Handle in accordance with good industrial hygiene and safety practice. Incompatible storage
Strong oxidizing agent

Conditions for safe storage
Keep in the dark in a dry and well-ventilated place.

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: chemical bound to paper
Colour: no color

Safety data
pH: 4.0-7.0
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: no data available
Water solubility: no data available
Partition coefficient:
n-octanol/water: no data available
Relative vapour Density: no data available
Odour: 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
Strong oxidizing agents.

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas.

### 11. TOXICOLOGICAL INFORMATION

**Acute toxicity**
- **Oral LD50**
  - LD50
  - Oral-rat-1,503 -2,177 mg/kg

**Inhalation LC50**
- **LC50**
  - Inhalation-rat-1 h-11.8 -134 mg/l

**Dermal LD50**
- no data available

**Reproductive toxicity**
- no data available

**Teratogenicity**
- 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**
- In vitro tests showed mutagenic effects

**Aspiration hazard**
- 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
Highly toxic by inhalation, Harmful by ingestion. Mutagen

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 exceed the threshold (De Minimis) 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.
## 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name: Standard DNA Fragments: DNA gel marker</th>
<th>Telephone: 1-800-338-6835 or 202-370-1500</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number: 750</td>
<td>Fax: 202-370-1501</td>
</tr>
<tr>
<td>Brand: Edvotek</td>
<td>Emergency Phone # (For both supplier and Manufacturer): 202-370-1500</td>
</tr>
<tr>
<td>Supplier: Edvotek 1121 5th Street NW Washington, DC 20001</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
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 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>Property</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

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: UltraSpec Agarose™
Product Number: 605
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).

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.

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.

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.

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.

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**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

**Toxicity**
no data available

**Persistence and degradability**
no data available

**Bioaccumulative potential**
no data available

**Mobility in soil**
no data available

**PBT and vPvB assessment**
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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