1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Lyphosample™
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).

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.

HMIS Classification:
Health hazard: 0
Flammability: 0
Physical hazard: 0
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: solid
- Colour: no data available
- 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: 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**
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>
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<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>PBT and vPvB assessment</th>
</tr>
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<tr>
<td>no data available</td>
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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>

<table>
<thead>
<tr>
<th>Mobility in soil</th>
</tr>
</thead>
<tbody>
<tr>
<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: TBE Electrophoresis Buffer Powder
Telephone: 1-800-338-6835 or 202-370-1500
Product Number:
Fax: 202-370-1501
Brand: Edvotek
Emergency Phone #: 202-370-1500
Supplier: Edvotek
1121 5th Street NW
Washington, DC 20001

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification
Skin irritation (2)
Eye irritation (2A)
Reproductive toxicity (1B)
Specific target organ toxicity - single exposure (3)
Respiratory system, Acute aquatic toxicity (3)
Chronic aquatic toxicity (3)

Signal Word
Danger

Hazard(s) Statements
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H360 May damage fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Pictogram
Precautionary statement(s)

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P273 Avoid release to the environment.
P280 Wear protective gloves/ 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.
P308 + P313: IF exposed or concerned: Get medical advice/ attention.
P321 Specific treatment (see supplemental first aid instructions on this label).

P332 + P313 If skin irritation occurs: Get medical advice/ attention.
P337 + P313 If eye irritation persists: Get medical advice/ attention.
P362 Take off contaminated clothing and wash before reuse.
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/ container to an approved waste disposal plant.

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

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

Potential Health Effects:
Inhalation: May cause respiratory irritation.
Skin: Cause skin irritation.
Eyes: Causes serious eye irritation.
Ingestion: Harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boric Acid</td>
<td>233-139-2</td>
<td>10043-35-3</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 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
Carbon oxides, nitrogen oxides (NOx), Borane/boron oxides, Sodium oxides
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. Avoid formation of dust and aerosols. 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
Colour white
Odor no data available

**Safety data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>pH</td>
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</tr>
<tr>
<td>Melting point/freezing 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>Autoignition 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>
<tr>
<td>Vapour pressure</td>
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<tr>
<td>Density (water=1)</td>
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<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient:</td>
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<tr>
<td>n-octanol/water</td>
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<td>Relative vapour Density</td>
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</tr>
<tr>
<td>Odour Threshold</td>
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<tr>
<td>Evaporation rate</td>
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</table>
## 10. STABILITY AND REACTIVITY

<table>
<thead>
<tr>
<th>Chemical stability</th>
<th>Conditions to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable under recommended storage conditions.</td>
<td>No further relevant data available.</td>
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</tbody>
</table>

**Possibility of hazardous reactions**

No further relevant data available.

**Materials to avoid**

No further relevant data available.

**Hazardous decomposition products**

No dangerous decomposition products.

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity LD/LC50 values**

no data available

**Serious eye damage/eye irritation**

no data available

**Respiratory or skin sensitization**

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
12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Toxicity</th>
<th>Mobility in soil</th>
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</thead>
<tbody>
<tr>
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<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
Skincare irritation
Eye irritation
Reproductive toxicity
Specific target organ toxicity - single exposure
Respiratory system, Acute aquatic toxicity
Chronic aquatic toxicity

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: Universal DNA Buffer
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: 1
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

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>EDTA, disodium dihydrate</td>
<td>205-358-3</td>
<td>6381-92-6</td>
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<tr>
<td>Tris hydroxymethyl aminomethane</td>
<td>201-064-4</td>
<td>77-86-1</td>
<td>&lt; 10 mM</td>
</tr>
</tbody>
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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
Carbon oxides, Nitrogen oxides (NOx).
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 red/blue
Odor no data available

Safety data
pH 6-8
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
Vapor pressure no data available
Density (water=1) 1.020
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.

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

**Possibility of hazardous reactions**
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

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 12/17/2018

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

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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</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
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<td>60-00-4</td>
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<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>
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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
Colour Blue
Odor No odor

**Safety data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH</td>
<td>7-9</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
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</tr>
<tr>
<td>Boiling point</td>
<td>~ 100°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
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<tr>
<td>Ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Autoignition 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>
<tr>
<td>Vapour pressure</td>
<td>no data available</td>
</tr>
<tr>
<td>Density (water=1)</td>
<td>1.0</td>
</tr>
<tr>
<td>Water solubility</td>
<td>no data available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>n-octanol/water no data available</td>
</tr>
<tr>
<td>Relative vapour Density</td>
<td>no data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</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

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
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

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: 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.
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
- 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.

**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>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Toxicity</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Mobility in soil</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>PBT and vPvB assessment</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Bioaccumulative potential</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
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.

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

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Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: SYBR ® Safe DNA Stain
Product Number: 608
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

2. HAZARDS IDENTIFICATION

Emergency Overview
OSHA Hazards:
Skin Irritant 3, Eye Irritant 2B, Specific target organ systemic toxicity 3

Signal word
Danger

Pictogram

Hazard statement(s)
H316 - Causes mild skin irritation

H320 - Causes eye irritation
H330 - May cause respiratory irritation
Precautionary statement(s)
P312 - Call a POISON CENTER or doctor/physician if you feel unwell
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P337 + P313 - If eye irritation persists:
Get medical advice/attention
P332 + P313 - If skin irritation occurs:
Get medical advice/attention
P264 - Wash hands thoroughly after handling present and easy to do.
Continue rinsing.

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

NFPA Rating:
Health hazard: 2
Fire: 0

Reactivity Hazard: 0

Potential Health Effects:
Inhalation: May be harmful if inhaled.
Skin: May be harmful if absorbed through skin.
Eyes: Causes 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>Dimethylsulfoxide</td>
<td>200-664-3</td>
<td>67-68-5</td>
<td>95-100%</td>
</tr>
<tr>
<td>SYBR ® Safe Stain</td>
<td>NOT FOUND</td>
<td></td>
<td>&lt; 1%</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 products known

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
Color no data available
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
Oxidizing agents, Strong oxidizing agents

Hazardous decomposition products
Hazard polymerization does not occur.
11. TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
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

Teratogenicity
no data available

Aspiration hazard
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**
Skin Irritant 3, Eye Irritant 2B, Specific target organ systemic toxicity 3

**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.

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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

**Pictogram**

**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) phenazationium chloride
3,7-Bis(dimethylamino) phenothiazin-5-ium chloride

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

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

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Effect</th>
<th>No Data Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>Mobility in soil</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>PBT and vPvB assessment</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>Other adverse effects</td>
</tr>
<tr>
<td></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

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PCR – EdvoBeads™
Product Number: 625
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:
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. 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      Solid
Colour    white
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

<table>
<thead>
<tr>
<th>Chemical stability</th>
<th>Conditions to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stable under recommended</td>
<td>No further relevant data available.</td>
</tr>
<tr>
<td>conditions.</td>
<td>Materials to avoid</td>
</tr>
<tr>
<td></td>
<td>No further relevant data available.</td>
</tr>
</tbody>
</table>

**Possibility of hazardous reactions**

No further relevant data available.

**Hazardous decomposition products**

No dangerous decomposition products known.

### 11. TOXICOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Acute toxicity LD/LC50 values</th>
<th>Respiratory or skin sensitization</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

**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

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

## PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>Primers - Synthetic DNA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number:</td>
<td>Edvotek</td>
</tr>
<tr>
<td>Brand:</td>
<td>Edvotek</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Edvotek 1121 5th Street NW Washington, DC 20001</td>
</tr>
<tr>
<td>Telephone:</td>
<td>1-800-338-6835 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>

## HAZARDS IDENTIFICATION

### Emergency Overview

**OSHA Hazards:**
No known OSHA hazards
Not a dangerous substance or mixture according to the Globally Harmonised 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 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
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
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

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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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: **Proteinase K**
Product Number: 626
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

**GHS Classification**
GHS Classification
Skin irritation 2
Eye irritation 2A
Respiratory sensitization 1
Specific target organ toxicity single exposure 3

**Signal word**
Danger

**Hazard statement(s)**

- **H315** Causes skin irritation.
- **H319** Causes serious eye irritation.
- **H334** May cause allergy or asthma symptoms or breathing difficulties if inhaled
- **H335** May cause respiratory irritation
Precautionary statement(s)
P261 Avoid breathing dust/ fume/ gas/mist/ vapours/ spray.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.

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

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

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: protease K, endopeptidase K

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Proteinase K</td>
<td>254-457-8</td>
<td>39450-01-6</td>
<td>&lt; 300 units</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.

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.

Get medical attention if irritation persists.

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.

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 solid
Color colorless

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 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
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

Respiratory or skin sensitization
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

Teratogenicity
no data available

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

**MDG**
Not dangerous goods

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

**OSHA Hazards**  
Target Organ Effect, Respiratory sensitizer, 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.

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Standard DNA Fragments: DNA gel marker
Product Number: 750
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)

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.

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

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

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1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Product name:</th>
<th>TE Buffer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Product Number:</td>
<td></td>
</tr>
<tr>
<td>Brand:</td>
<td>Edvotek</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Edvotek</td>
</tr>
<tr>
<td>Address:</td>
<td>1121 5th Street NW Washington, DC 20001</td>
</tr>
<tr>
<td>Telephone:</td>
<td>1-800-338-6835 or 202-370-1500</td>
</tr>
<tr>
<td>Fax:</td>
<td>202-370-1501</td>
</tr>
<tr>
<td>Emergency Phone #:</td>
<td>202-370-1500</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: 1
- 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

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>EDTA, disodium dihydrate</td>
<td>205-358-3</td>
<td>6381-92-6</td>
<td>&lt;1 mM</td>
</tr>
<tr>
<td>Tris hydroxymethyl aminomethane</td>
<td>201-064-4</td>
<td>77-86-1</td>
<td>&lt; 10 mM</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
Carbon oxides, Nitrogen oxides (NOx).
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.

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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.

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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 6-8
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
Vapor pressure no data available
Density (water=1) 1.020
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**
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

**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

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: Ultra Spec –Agarose™ powder
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. May cause skin irritation.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.
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: white
- 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.

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

**Possibility of hazardous reactions**
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><strong>Acute toxicity LD/LC50 values</strong></td>
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<td>no data available</td>
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<tr>
<td><strong>Skin corrosion/irritation</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Reproductive toxicity</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Teratogenicity</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Respiratory or skin sensitization</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Germ cell mutagenicity</strong></td>
<td>no data available</td>
</tr>
<tr>
<td><strong>Carcinogenicity</strong></td>
<td>No components of this product are listed by IARC, ACGIH, NTP and OSHA.</td>
</tr>
<tr>
<td><strong>Aspiration hazard</strong></td>
<td></td>
</tr>
</tbody>
</table>
12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

Synergistic effects
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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