Safety Data Sheet

Version 2
Revision Date 09/15/2014

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).

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.
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:
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

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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.
1. PRODUCT AND COMPANY IDENTIFICATION

Product name: 10X Gel loading Solution
Product Number: 607
Brand: Edvotek
Supplier: Edvotek
1121 5th Street NW
Washington, DC 20001

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

2. HAZARDS IDENTIFICATION

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

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

NFPA Rating:
Health hazard: 0

Fire: 0
Reactivity Hazard: 0

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

Mixture of the substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethylenediaminetetraacetic acid (EDTA)</td>
<td>200-449-4</td>
<td>60-00-4</td>
<td>&lt; 100 mM</td>
</tr>
<tr>
<td>Bromophenol blue</td>
<td>201-064-4</td>
<td>115-39-9</td>
<td>&lt; 0.10%</td>
</tr>
<tr>
<td>Glycerol</td>
<td>200-289-5</td>
<td>56-81-5</td>
<td>&lt; 50 %</td>
</tr>
</tbody>
</table>

4. FIRST AID MEASURES

General information
No special measures required.

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

In case of 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**
- pH: 7-9
- Melting point/freezing point: no data available
- Boiling point: ~ 100°C
- Flash point: no data available
- Ignition temperature: no data available
- Autoignition Temperature: no data available
- Lower explosion limit: no data available
- Upper explosion limit: no data available
- Vapour pressure: no data available
- Density (water=1): 1.0
- Water solubility: no data available
- Partition coefficient:
  - n-octanol/water: no data available
- Relative vapour Density: no data available
- Odour Threshold: no data available
- Evaporation rate: no data available
## 10. STABILITY AND REACTIVITY

<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>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Possibility of hazardous reactions</th>
<th>Materials to avoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>No further relevant data available.</td>
<td>No further relevant data available.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Hazardous decomposition products</th>
<th>No dangerous decomposition products known.</th>
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</thead>
</table>

## 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>

<table>
<thead>
<tr>
<th>Serious eye damage/eye irritation</th>
<th>Germ cell mutagenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Skin corrosion/irritation</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>No component of this product are listed by IARC, ACGIH, NTP and OSHA</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Reproductive toxicity</th>
<th>Teratogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Aspiration hazard</th>
<th>Synergistic effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>
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 08/09/2013

#### 1. PRODUCT AND COMPANY IDENTIFICATION

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
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<tr>
<td>Product name:</td>
<td>DNA in solution</td>
</tr>
<tr>
<td>Product Number:</td>
<td>332, 333, 334, 336, 369, 701, 702, 703, 704</td>
</tr>
<tr>
<td>Brand:</td>
<td>Edvotek</td>
</tr>
<tr>
<td>Supplier:</td>
<td>Edvotek</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: 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.

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### 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.

Materials to avoid
No further relevant data available.

Hazardous decomposition products
No dangerous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values
no data available

Respiratory or skin sensitization
no data available

Serious eye damage/eye irritation
no data available

Germ cell mutagenicity
no data available

Skin corrosion/irritation
no data available

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

Reproductive toxicity
no data available

Aspiration hazard
no data available

Teratogenicity
no data available

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

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

### 13. DISPOSAL CONSIDERATIONS

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

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

### 14. TRANSPORT INFORMATION

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

**IATA**
Not dangerous goods
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

Product name: TBE Electrophoresis Buffer 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

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.
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**
- 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

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

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

<table>
<thead>
<tr>
<th>Persistence and degradability</th>
<th>PBT and vPvB assessment</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
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</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
Skin 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.
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: Ethidium Bromide
Product Number: 2000, 2002, 20005
Brand: Edvotek
Supplier: Edvotek
Address: 1121 5th Street NW, Washington, DC 20001
Telephone: 1-800-338-6835 or 202-370-1500
Fax: 202-370-1501
Emergency Phone #: 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview

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

Pictograms

Hazard statement(s)
H302 Harmful if swallowed.
H330 Fatal if inhaled.
H341 Suspected of causing genetic defects.

Signal word
Danger
Precautionary statement(s)
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P281 Use personal protective equipment as required.
P310 Immediately call a POISON CENTER or doctor/ physician

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

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

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

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: EtBr
3,8-Diamino-5-ethyl-6-phenylphenanthridinium bromide
Homidium bromide
Formula: C_{21}H_{20}BrN_{3}
Molecular Weight: 394.31 g/mol

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,8-Diamino-1-ethyl-6-phenylphenanthridinium bromide</td>
<td>214-984-6</td>
<td>1239-45-8</td>
<td>&lt; 25 ng/ul</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

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

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

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

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

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

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

Hazardous combustion products
Emits toxic fumes.

6. ACCIDENTAL RELEASE MEASURES

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

Environmental precautions
Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.
Methods and materials for containment and cleaning up
Clean up spills immediately. Use absorbent materials if needed and dispose into a chemical waste container.

7. HANDLING AND STORAGE

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice.  

Incompatible storage
Strong oxidizing agent

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

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

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

Eye protection
Avoid eye contact with this material. Wear chemical safety goggles.

Skin and body protection
Use chemical gloves as needed. Use clean protective body covering clothing as needed to minimize contact with clothing and skin.
Hygiene measures
Handle in accordance with good industrial hygiene and safety practice. Wash and dry hands at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form chemical bound to paper
Colour no color

Safety data
pH 4.0-7.0
Melting point/freezing point no data available
Boiling point no data available
Flash point no data available
Ignition temperature no data available
Autoignition Temperature no data available
Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available
Density no data available
Water solubility no data available
Partition coefficient:
n-octanol/water no data available
Relative vapour Density no data available
Odour no data available
Odour Threshold no data available
Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No further relevant data available.

Conditions to avoid
No further relevant data available.

Materials to avoid
Strong oxidizing agents.

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

11. TOXICOLOGICAL INFORMATION

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

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

Dermal LD50
no data available

Reproductive toxicity
no data available

Teratogenicity
no data available

Skin corrosion/irritation
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
In vitro tests showed mutagenic effects

Aspiration hazard
no data available

Synergistic effects
no data available

12. ECOLOGICAL INFORMATION

Toxicity
no data available

Mobility in soil
no data available

Persistence and degradability
no data available

PBT and vPvB assessment
no data available

Bioaccumulative potential
no data available
Other adverse effects
no data available

13. DISPOSAL CONSIDERATIONS

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

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
IMDG
Not dangerous goods
IATA
Not dangerous goods

15. REGULATORY INFORMATION

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

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

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard.

16. OTHER INFORMATION

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

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

**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**

<table>
<thead>
<tr>
<th>Hazard Statements</th>
<th>Precautionary Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>H315 - Causes skin irritation</td>
<td>P280 - Wear protective gloves/protective clothing/eye protection/face protection</td>
</tr>
<tr>
<td>H319 - Causes serious eye irritation</td>
<td>P302+ P352 - If ON SKIN: Wash with plenty of soap and water</td>
</tr>
<tr>
<td>H335 – May cause respiratory irritation</td>
<td>P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a</td>
</tr>
</tbody>
</table>

position comfortable for breathing.

**P305 + P351 + P338 - IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

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

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

---

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms:**
- 3,7-Bis(dimethylamino) phenazathionium chloride
- 3,7-Bis(dimethylamino) phenothiazin-5-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) phenazathionium chloride</td>
<td>200-515-2</td>
<td>61-73-4</td>
<td>&lt; 0.2%</td>
</tr>
</tbody>
</table>
4. FIRST AID MEASURES

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

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

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

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

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

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

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

6. ACCIDENTAL RELEASE MEASURES

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

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

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

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

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

Incompatible Products
Strong oxidizing agents.

8. EXPOSURE CONTROLS/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: no data available
n-octanol/water no data available
Relative vapour Density no data available
Odour Threshold no data available
Evaporation rate no data available

10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No further relevant data available

Conditions to avoid
No further relevant data available

Materials to avoid
No further relevant data available

Hazardous decomposition products
### 11. TOXICOLOGICAL INFORMATION

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

### 12. ECOLOGICAL INFORMATION

<table>
<thead>
<tr>
<th>Category</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toxicity</td>
<td>no data available</td>
</tr>
<tr>
<td>Mobility in soil</td>
<td>no data available</td>
</tr>
<tr>
<td>Persistence and degradability</td>
<td>no data available</td>
</tr>
<tr>
<td>PBT and vPvB assessment</td>
<td>no data available</td>
</tr>
<tr>
<td>Bioaccumulative potential</td>
<td>no data available</td>
</tr>
<tr>
<td>Other adverse effects</td>
<td>no data available</td>
</tr>
</tbody>
</table>
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.
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: Liquid Enzymes
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:
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**: clear
- **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

**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: 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.

<table>
<thead>
<tr>
<th>9. PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
</table>

**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: 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

Toxicity
no data available

PBT and vPvB assessment
no data available

Persistence and degradability
no data available

Other adverse effects
no data available

Bioaccumulative potential
no data available

Mobility in soil
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.
1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Primers - Synthetic DNA
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 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

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

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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: **Proteinase K**  
Product Number: 626  
Brand: Edvotek  
Supplier: Edvotek  
Address: 1121 5th Street NW  
City: Washington  
State: DC  
Postal Code: 20001  
Telephone: 1-800-338-6835 or 202-370-1500  
Fax: 202-370-1501  
Emergency Phone #: 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification
Skin irritation 2  
Eye irritation 2A  
Respiratory sensitization 1  
Specific target organ toxicity single exposure3

Signal word  
Danger

Pictograms

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>
</tr>
</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 symptoms develop.

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

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

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.

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

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

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

**Possibility of hazardous reactions**
No further relevant data available.
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 sensitiser, Irritant.

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

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

SARA 311/312 Hazards
Acute Health Hazard, Chronic Health Hazard.

16. OTHER INFORMATION

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

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

Revision Date 10/23/2015

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PTC paper
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 # (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

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phenylthiocarbamide</td>
<td>203-151-2</td>
<td>103-85-5</td>
<td>0.3 mg</td>
</tr>
</tbody>
</table>

Each strip contains less than 0.3 mg of PTC, far below the toxicity level.

4. FIRST AID MEASURES

**General information**
No special measures required.

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

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

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

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

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

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

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

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

6. **ACCIDENTAL RELEASE MEASURES**

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

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

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

7. **HANDLING AND STORAGE**

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

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

**Incompatible Products**
No known products.
8. EXPOSURE CONTROLS/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
Color white
Odor Odorless

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
No known products
## 11. TOXICOLOGICAL INFORMATION

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

## 12. ECOLOGICAL INFORMATION

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

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Restriction Enzyme Dilution Buffer

Telephone: 1-800-338-6835 or 202-370-1500

Fax: 202-370-1501

Emergency Phone #: 202-370-1500

Brand: Edvotek

Supplier: Edvotek

1121 5th Street NW
Washington, DC 20001

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.

**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
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 WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.
Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Restriction Enzyme Reaction 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: 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.

**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

PBT and vPvB assessment
no data available

Persistence and degradability
no data available

Other adverse effects
no data available

Bioaccumulative potential
no data available

Mobility in soil
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: 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)

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

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

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

No ingredients are hazardous according to OSHA criteria.

4. FIRST AID MEASURES

General information
No special measures required.

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

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

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

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

5. FIREFIGHTING MEASURES

Conditions of flammability
Not flammable or combustible.

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

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

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

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

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

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

7. HANDLING AND STORAGE

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

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

Incompatible Products
No known products.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

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

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

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

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

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Form liquid
Colour blue
Odor no data available

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

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

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

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

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

11. TOXICOLOGICAL INFORMATION

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

**Respiratory or skin sensitization**
No data available

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

**Germ cell mutagenicity**
No data available

**Skin corrosion/irritation**
No data available

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

**Reproductive toxicity**
No data available

**Aspiration hazard**
No data available

**Teratogenicity**
No data available

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

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: TE 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>
<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.

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

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

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.

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### 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**

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

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

<table>
<thead>
<tr>
<th>Bioaccumulative potential</th>
<th>Other adverse effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>no data available</td>
<td>no data available</td>
</tr>
</tbody>
</table>

13. **DISPOSAL CONSIDERATIONS**

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

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

14. **TRANSPORT INFORMATION**

**DOT (US)**
Not dangerous goods

**IMDG**
Not dangerous goods

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

OSHA Hazards
No known OSHA hazards

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

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

SARA 311/312 Hazards
No SARA Hazards.

16. OTHER INFORMATION

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

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# Safety Data Sheet

**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.
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: 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: 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

Teratogenicity
no data available

Aspiration hazard
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

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: B
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>
<td>&lt; 1mM</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.

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**: \( \sim 100^\circ C \)
- **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.

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no data available

**Aspiration hazard**  
no data available

**Teratogenicity**  
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