1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Cells Fixing Agent
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:
Flammable liquid, Target Organ Effect,
Toxic by inhalation. Toxic by ingestion,
Toxic by skin absorption

GHS Classification
Flammable liquids 2
Acute toxicity Oral 3
Acute toxicity Inhalation 3
Acute toxicity Dermal 3

Pictograms

Signal Word  Danger

Hazard statement(s)
H225 Highly flammable liquid and
vapour.
H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled
H370 Causes damage to organs.

Precautionary statement(s)
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280 Wear protective gloves/ protective clothing.
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician.

HMIS Classification:
Health hazard: 2
Flammability: 3
Physical hazard: 0

NFPA Rating:
Health hazard: 2
Fire: 3
Reactivity Hazard: 0

Potential Health Effects:
Inhalation: Toxic if inhaled.
Skin: Toxic if absorbed through skin. Causes skin irritation.
Eyes: Causes eye irritation.
Ingestion: Toxic if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: Methyl Alcohol

Formula: CH₄O

Molecular Weight: 32.04 g/mol

<table>
<thead>
<tr>
<th>Chemical name</th>
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<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methanol</td>
<td>200-659-6</td>
<td>67-56-1</td>
<td>-</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
Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking

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
Hazardous decomposition products formed under fire conditions.- Carbon 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
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 colourless
Odor no data available

**Safety data**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>pH</td>
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<tr>
<td>Melting point/freezing point</td>
<td>no data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>no data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>no data available</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>no data available</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>no data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
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<tr>
<td>Vapor pressure</td>
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<td>Density (water=1)</td>
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<tr>
<td>Water solubility</td>
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</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>no data available</td>
</tr>
<tr>
<td>Relative vapour Density</td>
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</tr>
<tr>
<td>Odour Threshold</td>
<td>no data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>no data available</td>
</tr>
</tbody>
</table>
10. STABILITY AND REACTIVITY

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
Vapours may form explosive mixture with air.

Conditions to avoid
Heat, flames and sparks. Extremes of temperature and direct sunlight.

Materials to avoid
Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids.

Hazardous decomposition products
Hazardous decomposition products formed under fire conditions. - Carbon oxides.

Acute toxicity LD/LC50 values
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

11. TOXICOLOGICAL INFORMATION

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
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>
</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**
Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption

**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

Version 2
Revision Date 05/23/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Eosin
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

Synonyms: Eosin Scarlet, Eosin bluish, Saffrosine

Formula: $C_{20}H_6Br_2N_2Na_2O_9$

Molecular Weight: 624.06 g/mol

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>EC No.</th>
<th>CAS –No</th>
<th>Concentration</th>
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</thead>
<tbody>
<tr>
<td>Eosin</td>
<td>208-943-1</td>
<td>548-24-3</td>
<td></td>
</tr>
</tbody>
</table>

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**

<table>
<thead>
<tr>
<th>Conditions of flammability</th>
<th>Suitable extinguishing media</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not flammable or combustible.</td>
<td>Use water spray, alcohol resistant foam, dry chemical or carbon dioxide.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Special protective equipment for firefighters</th>
<th>Hazardous combustion products</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wear self contained breathing apparatus for fire fighting if necessary.</td>
<td>No known products</td>
</tr>
</tbody>
</table>

6. **ACCIDENTAL RELEASE MEASURES**

<table>
<thead>
<tr>
<th>Personal precautions</th>
<th>Environmental precautions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prevent skin/eye contact. Use personal protective equipment as needed.</td>
<td>Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.</td>
</tr>
</tbody>
</table>

**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**

<table>
<thead>
<tr>
<th>Precautions for safe handling</th>
<th>Conditions for safe storage</th>
</tr>
</thead>
<tbody>
<tr>
<td>No special measures necessary. Good laboratory technique should be used when handling.</td>
<td>No special measures necessary. Store at room temperature.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incompatible Products</th>
</tr>
</thead>
<tbody>
<tr>
<td>No known products</td>
</tr>
</tbody>
</table>
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
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
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.

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

### 13. DISPOSAL CONSIDERATIONS

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

**Contaminated packaging**
Dispose of as unused product.
14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION

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.
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: Methylene Blue
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: Skin Irritant 2
Eye Irritant 2

Signal Word Warning

Hazard Statements
H315 - Causes skin irritation
H319 - Causes serious eye irritation

Precautionary Statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
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

Potential Health Effects:
Reactivity Hazard: 0
Fire: 0

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
Basic Blue 9
Tetramethylthionine chloride

Formula: $C_{16}H_{18}ClN_3S \cdot 3H_2O$
Molecular Weight: 373.90

<table>
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<th>Chemical name</th>
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<tbody>
<tr>
<td>Methylene Blue</td>
<td>200-515-2</td>
<td>61-73-4</td>
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</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.

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.

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

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

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

Chemical stability
Stable under recommended storage conditions.

Possibility of hazardous reactions
No further relevant data available.

Conditions to avoid
No further relevant data available.

Materials to avoid
No further relevant data available

Hazardous decomposition products
11. TOXICOLOGICAL INFORMATION

Acute toxicity LD/LC50 values
no data available

Serious eye damage/eye irritation
no data available

Respiratory or skin sensitization
no data available

Germ cell mutagenicity
no data available

Skin corrosion/irritation
no data available

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

Reproductive toxicity
no data available

Teratogenicity
no data available

Aspiration hazard
no data available

Synergistic effects
no data available
12. ECOLOGICAL INFORMATION

Toxicity
no data available

Persistence and degradability
no data available

Bioaccumulative potential
no data available

Mobility in soil
no data available

PBT and vPvB assessment
no data available

Other adverse effects
no data available

13. TRANSPORT INFORMATION

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

Contaminated packaging
Dispose of as unused product.

14. DISPOSAL CONSIDERATIONS

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods
15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards

OSHA Hazards
Target Organ Effect, Harmful by ingestion, Irritant

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

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

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

16. OTHER INFORMATION

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

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