1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Flash Blue™ DNA Stain

Product Number: 609

Brand: Edvotek

Supplier: Edvotek
1121 5th Street NW
Washington, DC 20001

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

Fax: 202-370-1501

Emergency Phone # (For both supplier and Manufacturer): 202-370-1500

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards:
Skin Irritant 2
Eye Irritant 2

Signal Word
Warning

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

Precautionary Statements
P280 - Wear protective gloves/protective clothing/eye protection/face protection

P302+ P352 - IF ON SKIN: Wash with plenty of soap and water
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a
position comfortable for breathing.

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

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

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

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

3. **COMPOSITION/INFORMATION ON INGREDIENTS**

**Synonyms:**
3,7-Bis(dimethylamino) phenazathionium chloride
3,7-Bis(dimethylamino) phenothiazin-5-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>
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<tbody>
<tr>
<td>3,7-Bis(dimethylamino) phenazathionium chloride</td>
<td>200-515-2</td>
<td>61-73-4</td>
<td></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>Risk Category</th>
<th>Data Availability</th>
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</thead>
<tbody>
<tr>
<td>Acute toxicity LD/LC50 values</td>
<td>no data available</td>
</tr>
<tr>
<td>Respiratory or skin sensitization</td>
<td>no data available</td>
</tr>
<tr>
<td>Serious eye damage/eye irritation</td>
<td>no data available</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>no data available</td>
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<tr>
<td>Skin corrosion/irritation</td>
<td>no data available</td>
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<tr>
<td>Carcinogenicity</td>
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<tr>
<td>No components of this product are listed by IARC, ACGIH, NTP and OSHA.</td>
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<tr>
<td>Reproductive toxicity</td>
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<td>Aspiration hazard</td>
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<td>Teratogenicity</td>
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<tr>
<td>Synergistic effects</td>
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## 12. ECOLOGICAL INFORMATION

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

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

Contaminated packaging
Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards
No known OSHA hazards.

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.

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.