



1121 5<sup>th</sup> Street NW  
Washington, DC 20001  
[www.edvotek.com](http://www.edvotek.com)

## Safety Data Sheet

Version 2  
Revision Date 12/21/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

|                                |                                 |
|--------------------------------|---------------------------------|
| Product name: X-Gal Solution   | Telephone: 1-800-338-6835       |
| Product Number: 614            | or 202-370-1500                 |
| Brand: Edvotek                 | Fax: 202-370-1501               |
| Supplier: Edvotek              | Emergency Phone #: 202-370-1500 |
| 1121 5 <sup>th</sup> 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

Synonym: 5-Bromo-4-chloro-3-indolyl  $\beta$ -D-galactopyranoside, X-Gal, BCIG

Formula :  $C_{14}H_{15}BrClNO_6$

Molecular Weight : 408.63 g/mol

| Chemical name | EC No.    | CAS -No   | Concentration |
|---------------|-----------|-----------|---------------|
| X-Gal         | 230-640-8 | 7240-90-6 | < 50 mg/ml    |

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.

### Incompatible Products

No known products.

### Conditions for safe storage

No special measures necessary. Store at room temperature.

## 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:<br>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

**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**

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.