



## Material Safety Data Sheet

**Product Name:** 5-Bromo-4-Chloro-3-Indolyl- $\beta$ -D-Galactopyranoside (X-GAL)

**Product Cat#:** 20-108:

### Product Information

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

**Molecular Weight:** 408.6

### Precautionary Information

**Hazards Identification:** S:22-24/25  
Wear protective gloves

**Accidental Release Measures:** Use chemical safety goggles, chemical resistant gloves and a powder mark. Avoid contact and inhalation by not creating a dust cloud.

**First Aid Measures:** Eyes/Skin: Flush with copious amounts of water; wash hands with soap and water; wash clothes before reuse.  
Inhalation: Remove subject to fresh air, give oxygen if breathing is difficult and seek medical help.  
Ingestion: Rinse mouth with water and seek medical advice

### Fire Fighting Measures

**Extinguishing Media:** Carbon dioxide, dry chemical powder or foam can be used.

### Handling and Storage

Avoid contact with eyes, skin and clothing by wearing appropriate protective clothing. Store at 0-4°C in the dark; for long term store at -20°C

### Exposure Controls and Personal Protection

**Occupational exposure limits:** No data available at this time

**Respiratory protection:** Powder mask

**Hand protection:** PVC or rubber gloves

**Eye protection:** Use chemical safety goggles

**Skin protection:** Use a long sleeved lab coat or preferably a long sleeved disposable coat

## Physical and Chemical Properties

Appearance:	White or almost white powder
Odor:	None
pH:	Not available
Boiling point:	Not available
Melting point:	Not available
Freezing point:	Not available
Flash point:	Not available
Flammability:	Not available
Autoflammability:	Not available
Explosive properties:	Not available
Oxidizing properties:	Not available, treat as a combustible solid
Vapor pressure:	Not available
Relative density:	Not available
Solubility in water:	No data available at this time; soluble in DMF or DMSO

## Stability and Reactive Data

Conditions to avoid:	Light, high temperatures and moisture
Materials to avoid:	Strong oxidizing agents, acids and water

### Hazardous

Decomposition product: Carbon monoxide, Carbon dioxide, Hydrochloric acid, Hydrobromic acid, and Nitrogen oxide

Hazardous polymerization: Will not occur

## Toxicological Information

No data available

## Ecological Information

No data available

## Disposal Consideration

Sweep up any spilled powder and place in a sealed container for disposal; dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Contaminated or empty packaging materials should be treated in the same way. Observe all laws concerning health and pollution.

## Transit Information

Take routine precautions to minimize exposure to this powder.

## Regulatory Information

Safety phrases: 22 Do not breathe dust; 24/25 Avoid contact with skin and eyes.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. Doc Frugal Scientific shall not be held liable for any damage resulting from handling or from contact with the above product. See invoice or packing slip for additional terms and conditions of sale.