

## 1: Identification of substance / mixture

### 1. Product Identifier

Substance

Product Name **5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside**  
Product Code B71800  
CAS Number 7240-90-6  
Other Names X-Gal  
IUPAC  
MFCD Number  
EC/EINECS 230-640-8  
REACH Number Index-No

### 2. Relevant identified uses of the substance or mixture and uses advised against

Research and Development

### 3. Details of the supplier of the safety data sheet

Melford Laboratories Ltd  
Bildeston Road, Chelsworth  
Ipswich  
Suffolk  
IP77LE  
UK



Telephone: 01449 741178  
Fax: 01449 741217  
Email: support@melford.co.uk

### 4. Emergency telephone number

+44(0)1449 741178 -

## 2. Hazards Identification

### 1. Classification of the substance or mixture

Non Hazardous

### 2. Label elements

Non Hazardous

### Hazard Statements

Non Hazardous

### Precautionary Phrases

Non Hazardous

### 3. Other Hazards

Non Hazardous

## 3. Composition / Information on Ingredients

### 1. Substances

Product Name	Hazards	Concentration
5-Bromo-4-chloro-3-indolyl b-D-galactopyranoside		
CAS Number: 7240-90-6 EC/EINECS: 230-640-8		<=100%

## 4. First Aid Measures

### 1. Description of first aid measures

*Skin Contact* Wash off with soap and plenty of water.  
Consult a doctor.

*Eye Contact* Flush eyes with water as a precaution.  
Consult a doctor.

*Ingestion*

*Inhalation* Never give anything by mouth to an unconscious person. Rinse mouth with water.  
Consult a doctor.  
If breathed in, move person into fresh air. If not breathing, give artificial respiration.  
Consult a doctor.

## 2. Most important symptoms and effects

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 3. Indication of any immediate medical attention

no data available

## 5. Firefighting measures

### 1. Extinguishing Media

*Suitable* Water spray.  
Alcohol resistant foam.  
Dry chemical powder.  
Carbon dioxide.

*Unsuitable* no data available

### 2. Special Hazards arising from the substance or mixture

In combustion may emit toxic fumes:  
Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Hydrogen bromide gas

### 3. Advice for Fire Fighters

Wear self-contained breathing apparatus.

## 6. Accidental Release Measures

### 1. Personal Precautions

Avoid dust formation. Avoid breathing vapors, mist or gas.

### 2. Environmental Precautions

Do not discharge into drains or rivers.

### 3. Methods & Materials

Sweep up and shovel. Avoid creating dust.  
Keep in suitable, closed containers for disposal

### 4. Preventing the occurrence of secondary hazards.

Clean up all spills immediately. Wear suitable PPE.

## 7. Handling and Storage

### 1. Personal Precautions

*Safe Handling* Provide appropriate exhaust ventilation at places where dust is formed.  
*Protection against explosions and fires* Normal measures for preventive fire protection.

### 2. Conditions for safe storage, including any incompatibilities

*Managing Storage Risks* Keep container tightly closed.  
*Storage Controls* Recommended storage temperature: -20 °C  
*Maintaining Integrity* No special requirements  
*Other advice* no further information available

### 3. Specific End Uses

The end use(s) have not been fully determined. The substance is supplied for Research and Development purposes by professionals only.

## 8. Exposure Controls/Personal Protection

### 1. Control Parameters

No Data Available

### 2. Exposure Controls

*General protective and hygiene measures*

The standard precautionary measures should be adhered to when handling

*Engineering measures*

Ensure appropriate exhaust ventilation in places where dust is formed.

*Eye / Face Protection*

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU)

*Hand protection*

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.  
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it

*Respiratory protection*

Respiratory protective device with particle filter.  
Use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

*Skin protection*

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

*Other personal protection advice*

no data available

## 9. Physical and Chemical Properties

### 1. Physical and Chemical Properties

Appearance	White to off white solid
Odour	No Data Available
Odour threshold	No Data Available
PH	No Data Available
Melting point / Freezing point	No Data Available
Initial boiling point and boiling range	No Data Available
Flash point	No Data Available
Evaporation rate	No Data Available
Flammability(solid,gas)	No Data Available
Upper/lower flammability or explosive limits	No Data Available
Vapour pressure	No Data Available
Vapour density	No Data Available
Relative density	No Data Available
Solubility(ies):	No Data Available
Partition coefficient: n-octanol/water	No Data Available
Auto-ignition temperature	No Data Available
Decomposition temperature	No Data Available
Viscosity	No Data Available
Explosive properties	No Data Available
Oxidising properties	No Data Available

### 2. Other Information

No additional information available

## 10. Stability and Reactivity

### 1. Reactivity

no data available

## 2. Stability

no data available

## 3. Possibility of Hazardous Reactions

no data available

## 4. Conditions to Avoid

no data available

## 5. Incompatible Materials

Strong oxidizing agents.

## 6. Hazardous Decomposition Products

no data available

## 11. Toxicology information

### 1. Information

<i>Acute Toxicity</i>	no data available
<i>Skin corrosion/irritation</i>	no data available
<i>Serious eye Damage/irritation</i>	no data available
<i>Respiratory or skin sensitisation</i>	no data available
<i>Germ Cell mutagenicity</i>	no data available
<i>Carcinogenicity</i>	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
<i>Reproductive toxicity</i>	no data available
<i>STOT-single exposure</i>	no data available
<i>STOT-repeated exposure</i>	no data available
<i>Aspiration hazard</i>	no data available

### 2. Additional

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Inhalation - May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion - May be harmful if swallowed.

Skin - May be harmful if absorbed through skin. May cause irritation

Eyes - May cause eye irritation.

## 12. Ecological Information

### 1. Toxicity

no data available

### 2. Persistence and degradability

no data available

### 3. Bio-Accumulative Potential

no data available

### 4. Mobility and Soil

no data available

### 5. Results of PBT & vPvB assessment

no data available

### 6. Other adverse effects

no data available

## 13. Disposal Considerations

### 1. Waste Treatment Methods

*Disposal Operations* Consult state, local or national regulations for proper disposal.

*Disposal of Packaging* Dispose of as unused product.

## 14. Transport Information

### Air (ICAO)

Not classified as hazardous for transport

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### Road (ADR)

Not classified as hazardous for transport

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### Sea (IMDG)

Not classified as hazardous for transport

## 15. Safety, health, environmental and national regulations

### 1. Safety, health, environmental and national regulations:

product is not subject to any additional regulations or provisions

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### 2. Safety Assessment

No Chemical Safety Assessment

## 16. Other Information

### 1. Other Information:

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user.

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### 3. Disclaimer

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process unless specified in the text