

## **MATERIAL SAFETY DATA SHEET**

### **ISO-PROPLY B-D-THIOGALACTOPYRANOSIDE 99%** **(For Molecular Biology) (IPTG)**

**(Non Metabolizable Galactose analog)**

**MSDS CAS: 367-93-1**

### **Section 1: Chemical Product and Company Identification**

#### Section 1: Chemical Product

**Product Name: ISO-PROPLY B-D-THIOGALACTOPYRANOSIDE**

**CAS#: 367-93-1**

**Synonym: IPTG, Isopropyl B-D-thiogalactoside**

**Chemical Name: ISO-PROPLY B-D-THIOGALACTOPYRANOSIDE**

**Chemical Formula: C<sub>9</sub>H<sub>18</sub>O<sub>5</sub>S**

**Brand: OXFORD**

#### Details Of The Supplier Of The Safety Data Sheet:

**Company identification: OXFORD LAB FINE CHEM LLP**  
Unit. No. 12, 1st Floor, Neminath Industrial Estate No. 6,  
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### **Section 2: Composition and Information on Ingredients**

#### Composition:

Name	CAS #	% by Weight
ISO-PROPLY B-D-THIOGALACTOPYRANOSIDE	367-93-1	100

## Section 3: Hazards Identification

This substance is not classified as dangerous according to Directive 67/548/EEC.

## Section 4: First Aid Measures

**If inhaled:** If breathed in, move person into fresh air. If not breathing give artificial respiration.

**In case of skin contact:** Wash off with soap and plenty of water.

**In case of eye contact:** Flush eyes with water as a precaution.

**If swallowed:** Never give anything by mouth to an unconscious person. Rinse mouth with water.

## Section 5: Fire and Explosion Data

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Special protective equipment for fire-fighters:**

Wear self contained breathing apparatus for fire fighting if necessary.

## Section 6: Accidental Release Measures

**Personal precautions:** Avoid dust formation.

**Environmental precautions:** Do not let product enter drains.

**Methods for cleaning up:** Sweep up and shovel. Keep in suitable, closed containers for disposal.

## Section 7: Handling and Storage

**Handling:**

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

## Section 7: Handling and Storage (continued)

### Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C hygroscopic

## Section 8: Exposure Controls/Personal Protection

### Personal protective equipment

#### Respiratory protection:

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, 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).

Hand protection: For prolonged or repeated contact use protective gloves.

Eye protection: Safety glasses.

Hygiene measures: General industrial hygiene practice.

## Section 9: Physical and Chemical Properties

Appearance Form	: Solid
pH	: 5 - 7 at 50 g/l
Molecular Weight	: 238.30 g/mole
Melting point	: 105 °C
Boiling point	: No data available
Flash point	: No data available
Ignition temperature	: No data available
Lower explosion limit	: No data available
Upper explosion limit	: No data available
Water solubility	: 0,05 g/l - clear
Partition coefficient: n-octanol/water log Pow:	-0,257

## Section 10: Stability and Reactivity Data

**Storage stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Exposure to moisture.

**Materials to avoid:** Strong oxidizing agents

**Hazardous decomposition products:**

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

## Section 11: Toxicological Information

**Acute toxicity:** No data available.

**Irritation and corrosion:** No data available.

**Sensitisation:** No data available.

**Chronic exposure**

**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.

**Signs and Symptoms of Exposure:**

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

**Potential Health Effects**

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

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

**Eyes** May cause eye irritation.

**Ingestion** May be harmful if swallowed.

## Section 12: Ecological Information

**Elimination information (persistence and degradability):** No data available.

**Ecotoxicity effects:** No data available.

## Section 12: Ecological Information (Continued)

Further information on ecology: No data available.

## Section 13: Disposal Considerations

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

## Section 14: Transport Information

### Land transport (ADR-RID)

**General information:** Not regulated.

### Sea transport (IMDG) [English only]

**General information:** Not regulated.

### Air transport (ICAO-IATA) [English only]

**General information:** Not regulated

## Section 15: Other Regulatory Information

### Labelling according to EC Directives

#### Further information:

The product does not need to be labelled in accordance with EC directives or respective national laws.

## Section 16 - Additional Information

References: Not available.

Other Special Considerations: Not available.

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