

# SAFETY DATA SHEET

Product: ML829 Updated: 2025-08-13

#### 1. IDENTIFICATION

**Product Name** 4-Methylphenyl 3-O-benzyl-1-thio-β-D-galactopyranoside

Catalogue Number ML829

**Recommended Use** Laboratory research and development.

Supplier Synthose Inc., 50 Viceroy Road, Unit 7, Concord, Ontario, L4K 3A7, Canada

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### 2. HAZARD IDENTIFICATION

#### Classification

Not classifiable according to GHS.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical Name** 4-Methylphenyl 3-O-benzyl-1-thio-β-D-galactopyranoside

Synonym 4-Methylphenyl 3-O-(phenylmethyl)-1-thio-β-D-galactopyranoside

CAS Number N/A

### 4. FIRST-AID MEASURES

Inhalation Call a POISON CENTER or doctor/physician if you feel unwell.

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

**Skin Contact** Wash with plenty of soap and water.

Eye Contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing for at least 15 minutes.

Ingestion Call a POISON CENTER or doctor/physician if you feel unwell.

### Most Important Symptoms and Effects, Acute and Delayed

Not determined

#### 5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

Unsuitable Extinguishing Media Not determined Special Protective Equipment and Not determined

**Precautions for Firefighters** 

### Specific Hazards Arising from the Hazardous Product

**Hazardous Combustion Products** Carbon oxides, Sulphur oxides

### 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment

and Emergency Procedures

Use personal protective equipment. Avoid breathing dust, fumes, gas, mist, vapours, or

spray.

Methods and Materials for Containment and

Cleaning Up

Pick up and arrange disposal without creating dust. Sweep up and shovel or soak up with inert absorbent material. Keep in suitable, closed containers for disposal.

## 7. HANDLING AND STORAGE

Precautions for Safe Handling Wear protective clothing, gloves, and safety glasses in accordance with good laboratory practices.

Conditions for Safe Storage Store at 0 to 8 °C.

Keep container tightly closed.

Incompatible Materials Not determined

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure Guidelines Not determined

### Individual Protection Measures / Personal Protective Equipment

Eye/Face Protection Wear safety glasses with side-shields, chemical safety goggles, or face shield. Use equipment for

eye protection tested and approved under appropriate government standards such as NIOSH (US)

or EN 166(EU).

**Skin Protection** Handle with gloves. Wear long-sleeved lab coat. Do not wear open-toed shoes.

**Respiratory Protection**Use particle respirator for nuisance exposures. For greater protection, use half or full face mask

respirator with cartridges. Respiratory equipment should be tested and approved under

appropriate government standards such as NIOSH (US) or CEN (EU).

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance** White Crystalline Solid Flammable/Explosive Limits Not determined Odour Not determined Vapour Pressure Not determined **Odour Threshold** Not determined Vapour Density Not determined рΗ Not determined **Relative Density** Not determined

Melting Point 155-157 °C Solubility DMSO, MeOH, DMF, EtOAc

Not determined **Boiling Point** Partition Coefficient log Kow Not determined Not determined Not determined Flash Point **Auto-ignition Temperature** Not determined Not determined **Evaporation Rate Decomposition Temperature** Flammability (solid, gas) Not determined Viscosity Not determined

#### 10. STABILITY AND REACTIVITY

Reactivity Not reactive

Chemical Stability Stable under recommended storage conditions

Possibility of Hazardous Reactions

None expected under normal conditions of storage and use

Conditions to Avoid

Open flames, sparks, static discharge, excessive heat

Incompatible Materials Not determined

**Hazardous Decomposition Products** 

Formed under Fire Conditions Carbon oxides, Sulphur oxides

## 11. TOXICOLOGICAL INFORMATION

Likely Routes of Exposure Not determined

InhalationMay be harmful if inhaled, may cause respiratory tract irritationSkin ContactMay be harmful in contact with skin, may cause skin irritation

Eye ContactMay cause eye irritationIngestionMay be harmful if swallowed

### 12. ECOLOGICAL INFORMATION

Not determined

### 13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with local, regional, and/or federal regulations.

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

### 14. TRANSPORT INFORMATION

Not dangerous goods for transport according to IATA, IMDG, or ADR.

## 15. REGULATORY INFORMATION

Canada DSL / NDSL The components of this product are not on the DSL Inventory but are manufactured at <100kg per year.

**USA TSCA Negative Certification** 

Registry of Toxic Effects of Chemical Substances

## 16. OTHER INFORMATION

2025-08-13 **Latest Revision** 

### Abbreviations

RTECS

ATE	Acute Toxicity Estimate	DSL	Domestic Substances List
011	Concentration in octanol phase / Concentration in	NDSL	Non-Domestic Substances List

aqueous phase TSCA Toxic Substances Control Act  $LC_{50}$ Median Lethal Concentration

International Air Transport Association IATA  $LD_{50}$ Median Lethal Dose International Maritime Dangerous Goods **IMDG** 

TDLo Lowest Known Toxic Dose ADR Agreement concerning the International Carriage of Half Maximal Effective Concentration  $EC_{50}$ 

Dangerous Goods by Road