



The Power to Question

# Tyvelose: sc-222394

## Material Safety Data Sheet

### **Section 1 - General Information**

**Chemical Name:**

Tyvelose

**CAS Reg. Number:**

5658-12-8

**Catalog Number:**

sc-212803

**Supplier:**

Santa Cruz Biotechnology, Inc.  
2145 Delaware Avenue  
Santa Cruz, CA 95060  
800.457.3801 or 831.457.3800

**Emergency:**

ChemWatch

Within the US & Canada: 877-715-9305

Outside the US & Canada: +800 2436 2255

(1-800-CHEMCALL) or call +613 9573 3112

### **Section 2 - Hazardous Ingredients/Identity Information**

We are not aware of any hazards for the above product. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Toronto Research Chemicals shall not be held liable for any damage resulting from handling or from contact with the above product.

### **Section 3 - Physical/Chemical Characteristics**

**Boiling Point:**

N/A

**Appearance and Odor:**

Off-White Waxy Solid (low-melting)

**Vapor Pressure:**

N/A

**Specific Gravity(H<sub>2</sub>O=1):**

N/A

**Solubility in Water:**

Yes

**Melting Point:**

N/A

**Evaporation Rate (ButylAcetate=1):**

N/A

**Vapor Density:**

N/A

**Molecular Weight:**

148.16

**Molecular Formula:**

C<sub>6</sub>H<sub>12</sub>O<sub>4</sub>

### **Section 4 - Reactive Data**

**Stability:**

good, hygroscopic store under inert gas

**Incompatibility (Materials to Avoid):**

Strong oxidizers

**Conditions to Avoid:**

Moisture and strong oxidizers

**Hazardous Decomposition or Byproducts:**

toxic fumes of carbon monoxide, carbon dioxide

**Hazardous Polymerization:**

will not occur

### **Section 5 - Control Measures**

**Respiratory Protection:**

Niosh/Msha approved respirator

**Ventilation:**

Use in fume hood

**Protective Gloves:**

chemical resistant gloves

**Eye Protection:**

safety goggles

**Other Protective Clothing:**

lab coat, apron

**Other Protection:**

Safety shower and eyewash

**Section 6 - First Aid Measures****Inhalation:**

Remove to fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

**Skin:**

Immediately flush skin with copious amounts of water for at least 15 min while removing contaminated clothing and shoes.

**Ingestion:**

If swallowed, wash out mouth with water provided person is conscious. Call a physician. Remove and wash contaminated clothing immediately.

**Eyes:**

Immediately flush eyes with copious amounts of water for at least 15 min. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

**Section 7 - Health Hazard Data****Health Hazards (Acute and Chronic):**

ROUTE OF EXPOSURE Skin Contact: May cause skin irritation. Skin Absorption: May be harmful if absorbed through the skin. Eye Contact: May cause eye irritation. Inhalation: May be harmful if inhaled. Material may be irritating to mucous membranes and upper respiratory tract. Ingestion: May be harmful if swallowed. The toxicological properties of this compound have not been thoroughly investigated. Exercise due care. The unusual sugar Tyvelose is the immunodominant portion of the major larval glycoprotein antigens of *Trichinella spiralis*, which play an important role in generating immunity against the intestinal stages of infection.

**Medical Conditions Generally Aggravated by Exposure:**

The toxicological properties of this compound have not been thoroughly investigated. Exercise due care.

**Section 8 - Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled:**

Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

**Waste Disposal Method:**

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state and local environmental regulations.

**Precautions to Be Taken in Handling and Storage:**

Keep tightly closed. Store in a cool dry place.

**Section 9 - Fire and Explosion Hazard Data****Extinguishing Media:**

Water spray. Carbon Dioxide, dry chemical powder or appropriate foam.

**Special Fire Fighting Procedures:**

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

**Unusual Fire and Explosion Hazards:**

Emits Toxic fumes under fire conditions.

**Section 10 - Transportation Information and regulatory information**

DOT Proper Shipping Name: None Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport. IATA Non-Hazardous for Air Transport: Non-hazardous for air transport.

***The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.***