

# SAFETY DATA SHEET

## MTT

(THIAZOLYL BLUE TETRAZOLIUM BROMIDE)

### SECTION 1: CHEMICAL AND COMPANY IDENTIFICATION

**BioShop Canada Inc.**  
**5480 Mainway**  
**Burlington, Ontario L7L 6A4**  
**1-800-234-1179**  
**Emergency Telephone No.: 905-466-3832**  
**Chemical Name: THIAZOLYL BLUE TETRAZOLIUM BROMIDE**  
**Synonym: MTT**  
**Catalog Number: MTT222**

### SECTION 2 HAZARDS IDENTIFICATION

#### GHS Classification

#### CLASSIFICATION:

Skin irritant: Category 2

Eye irritant, Category 2

Acute toxicity: Category 4

#### PICTOGRAM:



**SIGNAL WORD: WARNING**

#### HAZARD STATEMENTS:

H302- Harmful if swallowed

H315- Causes skin irritation

H319- Causes serious eye irritation

#### PRECAUTIONARY STATEMENTS:

P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P305+P351+P338- if in eyes: rinse cautiously with water for several minutes. remove contact lenses if present and easy to do. Continue rinsing.

#### Potential Health Effects:

Inhalation: may be harmful if inhaled.

Skin: may be harmful if absorbed through skin

Eyes: Causes eye irritation

Ingestion: harmful if swallowed

### SECTION 3 COMPOSITION/ INGREDIENTS

**Molecular formula: C18H16BrN5**

**Molecular weight: 414.32 g/mol**

	CAS #	EC-No.	%
Thiazolyl blue tetrazolium bromide	298-93-1	206-069-5	100

### SECTION 4 FIRST AID MEASURES

**Eyes:** Flush eyes with plenty of water . Consult a physician.

**Skin:** In case of contact, flush area immediately with water. Get medical aid if irritation persists.

**Inhalation:** Remove victim to fresh air. If breathing becomes difficult, give oxygen. Consult a physician..

**Ingestion:** Wash mouth with water. Do NOT induce vomiting. Consult a physician if you feel unwell.

### SECTION 5 FIRE FIGHTING MEASURES

**Flammability:** not flammable

**Flash Point:** 113C-closed cup

**Autoignition Temperature:** not determined

**Extinguishing Media:** Use water spray, foam, dry chemical or carbon dioxide.

**Explosion Data:** Not available

### SECTION 6 ACCIDENTAL RELEASE MEASURES

#### Personal precautions:

Ventilate the area. Wear appropriate protective equipment. Avoid contact with skin, eyes and clothing.

#### Methods for containment and clean up:

If safe to do so, contain further leakage. Sweep and place in a closed container. Dispose according to local regulations.

### SECTION 7 HANDLING AND STORAGE

**Handling:** Do not get in eyes, on skin, or clothing. Wash thoroughly after handling. Wash contaminated clothing before reuse.

**Storage Conditions:** Room temperature. Keep cool and dry.

### SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Exposure limits:

ACGIH, NIOSH, OSHA, none listed

Use adequate ventilation. Avoid dust generation..

**Personal protective Equipment:** Wear appropriate safety glasses and protective gloves/clothing. Use approved NIOSH respirator.

**Engineering Measures:** eye wash stations, ventilation systems, showers

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. wash hands before and after handling product.

### SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

**Appearance:** White powder

**Odor:** no information found t

**Odor Threshold:** : no information found

**Melting Point:** 195C

**Boiling Point:** no information found

**Specific Gravity:** no information found

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**Vapor Density:** no information found  
**Vapor pressure:** no information found  
**Water Solubility:** no information found **pH:** no information found  
**Flammability:** No  
**Flash point:** no information found  
**Ignition temperature:** no information found  
**Autoignition temperature:** no information found  
**Lower explosion limit:** no information found  
**Upper explosion limit:** no information found

Moderate eye irritant

### SECTION 16 ADDITIONAL INFORMATION

Prepared By: M.Kierdelewicz  
Date Prepared: Jan 1/2025  
Phone: (800) 234-1179

The information provided on this Material Safety Data Sheet is furnished in good faith and without warranty of any kind. The above information is believed to be correct and should be used only as a guide. BioShop Canada Inc. shall not be held liable for any damage resulting from the handling or from the contact with the above product. Observe all federal, provincial and state laws concerning health, safety and pollution.

### SECTION 10 STABILITY AND REACTIVITY:

**Stability:** Stable at normal room temperature and pressure  
**Conditions to avoid:** dust generation  
**Incompatibility** strong oxidizing agents, reducing agents.  
**Hazardous Decomposition Products:** fumes of carbom monoxide, carbon dioxide and oxides of sulfur.  
**Hazardous Polymerization:** Has not been reported

### SECTION 11 TOXICOLOGICAL PROPERTIES

#### Exposure Limits:

LD50/LC50:  
no information found  
**Epidemiology:** No data available  
**Teratogenicity:** No data available  
**Reproductive Effects:** No data available  
**Neurotoxicity:** No data available  
**Mutagenicity:** No data available  
**Carcinogenicity:** not listed by ACGIH, IARC, NTP, or CA

### SECTION 12 ECOLOGICAL INFORMATION

**Ecotoxicity:**  
No information found

### SECTION 13 DISPOSAL CONSIDERATION

**Waste Disposal:** Care should exercised when burning in chemical incinerator as this substance is flammable.. Observe all Federal, provincial and local regulations.

### SECTION 14 TRANSPORT INFORMATION

#### Shipping Information:

**DOT (US):**  
Not regulated  
**IMDG**  
Not regulated  
**IATA:**  
Not regulated

### SECTION 15 REGULATORY INFORMATION

**Canada:**  
WHMIS:  
D2B, Toxic material Causing Other Toxic Effects