

## Safety Data Sheet

### 1. Identification of the substance/preparation and of the company

- 1.1. Product name:** TMB dihydrochloride  
**Product code:** TMB-HC
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Relevant identified uses:** For research use only, not for human or veterinary use.
- 1.3. Details of the supplier of the safety data sheet**  
**Company name/address:** Biopanda Diagnostics  
Unit 14 Carrowreagh Business Park  
Carrowreagh Road, Dundonald  
Belfast, BT16 1WF  
UNITED KINGDOM
- Website:** [www.biopanda-diagnostics.com](http://www.biopanda-diagnostics.com)  
**Email:** [info@biopanda-diagnostics.com](mailto:info@biopanda-diagnostics.com)  
**Telephone:** +44 (0)2895 438774
- 1.4. Emergency telephone number**  
*These services are only available to health professionals*  
UK National Poisons Emergency Number: +44 (0)870 600 6266

### 2. Hazards identification

- 2.1. Classification of the substance or mixture**  
**2.1.1. Classification according to Regulation (EC) No 1272/2008 [CLP]:**  
This is not a hazardous substance or mixture.
- 2.2. Label elements:**
- 2.3. Other hazards:**  
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 3. Composition/Information on ingredients

Formula:  $C_{16}H_{20}N_2 \cdot 2HCl$   
Molecular weight: 313.27 g/mol  
CAS No.: 64285-73-0  
EC No.: 264-769-6

## 4. First-aid measures

### 4.1. Personal protection for first aid personnel

First aid personnel providing treatment to a patient exposed to this solution should observe the following precautions for their own personal protection:

- Avoid contact with contaminated skin, clothing and equipment by wearing protective gloves to prevent contact with skin.
- Wear safety goggles as a minimum level of eye protection to prevent splashes of solution entering the eye.
- Avoid inhalation of fumes or mist during rescue in a contaminated area by wearing suitable respiratory protection; suitable protection is an air supplied breathing apparatus or positive pressure self-contained breathing apparatus.

### 4.2. Description of first aid measures

#### Eye contact

Flush thoroughly with water or physiological salt water.

#### Skin Contact

Remove contaminated clothing and wash affected skin with soap and water.

#### Inhalation

If inhaled, remove victim to fresh air. If difficult breathing, support breathing, give oxygen and obtain medical attention. If not breathing, give artificial respiration.

#### Ingestion

If ingested, do NOT induce vomiting. If conscious and alert, rinse mouth, drink plenty of water

#### Information

Show this Safety Data Sheet to a physician or emergency ward. Note to physician: Treat symptomatically.

### 4.3. Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

### 4.4. Indication of any immediate medical attention and special treatment needed

No data available.

## 5. Fire-fighting measures

### 5.1. Flammable properties and hazards

Non Flammable, not combustible; aqueous solution.

### 5.2. Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, water or dry chemical spray.

#### Unsuitable extinguishing media

N/A

### 5.3. Fire fighting instructions

As in any fire, wear self-contained breathing apparatus and full protective gear to prevent contact with skin and eyes.

## 6. Accidental release measures

### 6.1. Personal precautions

Wear suitable laboratory protective clothing. See protective equipment listed in section 8. Avoid breathing vapours and provide adequate ventilation.

### 6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### 6.3. Methods for containment and cleaning

Absorb spilled liquid and place spillage in a chemical disposal container. Wash the area of the spill thoroughly with water and soap.

## 7. Handling and storage

### 7.1. Precautions to be taken when handling

Wear proper personal protective lab equipment (see section 8). Avoid skin contact and breathing fume/gas/mist/vapour. Wash thoroughly after handling.

### 7.2. Precautions to be taken in storing

Store at 2 – 8°C. Keep container tightly closed and ensure it is labelled appropriately. Product is sensitive to light and moisture.

## 8. Exposure controls and personal protection

### 8.1. Exposure parameters

Product contains no substances with occupational exposure limit values.

### 8.2. Exposure controls

#### 8.2.1. Engineering controls

Use process enclosures, local exhaust ventilation or other engineering controls to control airborne levels below recommended exposure limits.

#### 8.2.2. Personal protective equipment

No special equipment is required in intended conditions of normal use.

Eye protection:

Safety glasses.

Skin protection:

Compatible chemical-resistant gloves.

Other protective clothing:

Lab coat.

Work practices:

Facilities storing or utilising this material should be equipped with an eyewash facility. Wash after handling.

## 9. Physical and chemical properties

<b>Physical state:</b>	Solid
<b>Appearance:</b>	White to off-white powder
<b>Odour:</b>	Odourless
<b>Boiling point (°C):</b>	No data
<b>Flash point (°C):</b>	No data
<b>Density (g/ml) at 20°C:</b>	No data
<b>Solubility in water:</b>	Poor solubility
<b>pH:</b>	No data
<b>Melting point:</b>	>300°C
<b>Freezing point:</b>	No data
<b>Evaporation rate:</b>	No data

## 10. Stability and reactivity

### Stability

This product is stable under normal storage and handling conditions

**Conditions and materials to avoid**

Do not store in metallic containers.

**Hazardous decomposition products**

No hazardous decomposition or polymerisation under normal conditions.

**11. Toxicology information****Toxicity**

For more information on this component, refer to the MSDS Sheets available from the manufacturer (Sigma-Aldrich, product No.:860336).

**Chronic effects**

(carcinogenicity, teratogenicity, reproductive toxicity, mutagenesis)

No other known significant effects or critical hazards are expected from ingredients data.

**12. Ecological information**

No data available

**13. Disposal considerations**

Disposal should be according to local, state or national legislation.

**14. Transport information**

<b>ICAO/IATA Shipping Name</b>	N/A
<b>UN Number</b>	N/A
<b>Packing Group</b>	N/A
<b>Hazard Class</b>	N/A

**15. Regulatory information**

This safety datasheet complies with the requirements of Regulation (EC) No. 1272/2008

**Safety, health and environmental regulations/legislation specific for the product**

No data available

**Chemical Safety Assessment**

No data available

**16. Other information**

**Edition No.: 02**

**(Revision) date: 27<sup>th</sup> February 2018**

**Requirements concerning special training**

No special training is anticipated; however, the user should be well instructed for the execution of his task, have knowledge of this Safety Data Sheet and normal training in the use of personal protective equipment.

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