

Material Safety Data Sheet (MSDS) for TMB SUBSTRATE SOLUTION

I. Identification:

Product name: TMB Substrate Solution

Product Catalog: 7004

CAS number: None

Manufacturer Supplier: Cell Signaling Technology
3 Trask Lane
Danvers, MA 01923 USA
1-978-867-2300 TEL
1-978-867-2400 FAX
1-978-578-6737 Emergency TEL

II. Composition/Information on Ingredients:

Trade secret formulation.

III. Hazard Identification:

This product contains a non-carcinogenic analog of benzidine, mild oxidizing agent.

To the best of our knowledge, the chemical, physical, and toxicological properties of this solution have not been thoroughly investigated. For additional information, refer to section XI.

IV. First Aid Measures:

Inhalation: Remove to fresh air. If breathing is difficult, get medical attention.

Ingestion: If person is conscious, wash out mouth with water. Get medical attention.

Skin exposure: Wash skin with soap and water. If irritation develops or persists, get medical attention.

Eye exposure: Immediately flush eyes water for at least 15 minutes. Get medical attention.

V. Fire Fighting Measures:

Flash Point: N/A

Autoignition Temperature: N/A

Explosion: N/A

Fire extinguishing media: water spray, dry chemical, alcohol foam, or carbon dioxide.

Firefighting: wear protective clothing and self-contained breathing apparatus to prevent contact with skin and eyes.

VI. Accidental Release Measures:

Wear appropriate personal protective equipment as indicated in Section VIII. Absorb liquid with an absorbent material. Transfer contaminated absorbent to a closed chemical waste container for disposal. Wash spill site after material has been picked up for disposal.

VII. Handling And Storage:

Store at 2°C – 8°C in tightly closed container.

Avoid light and elevated temperatures.

Avoid contact with eyes, skin, and clothing, wash thoroughly after handling.

VIII. Exposure Controls/Personal:

Ventilation System: a system of local and/or general exhaust is recommended.

Skin Protection: wear compatible chemical resistant gloves and protective clothing.

Eye protection: wear protective safety glasses or chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

IX. Physical And Chemical Properties:

Appearance:	clear to light yellow liquid
Boiling Point:	no data available
Melting Point:	no data available
Freezing Point:	no data available
Volatile Organic Compounds (VOC):	no data available
Autoignition temp.	no data available
Specific Gravity:	1.010 (H ₂ O = 1.0)
Solubility:	soluble in water

X. Stability and Reactivity:

Conditions to avoid: strong oxidizing agents and metals.

Hazardous Decomposition: may lead to carbon monoxide, carbon dioxide and nitrogen oxide.

Hazardous polymerization: will not occur.

XI. Toxicological Information:

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

Routes of Exposure: unknown at this time. Avoid ingestion, inhalation, contact with skin, eyes.

Signs and Symptoms of Exposure: unknown at this time.

XII. Ecological Information:

Ecological Information: No data available.

XIII. Disposal Considerations: Dispose of in accordance with federal, state and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material.

XIV. Transport Information:

D.O.T.

Proper Shipping Name: None

This substance is considered non-hazardous for transport.

IATA

Proper Shipping Name: None

This substance is considered non-hazardous for air transport.

XV. Regulatory Information:

EU Regulations/Classifications/Labeling Information: Not available for this chemical substance.

US Regulatory Information:

SARA Listed: No

Canada (WHMIS): DSL No, NDSL No.

XVI. Other Information:

This compound is sold only for research use by personnel familiar with chemicals and who are well trained in good laboratory habits, such as avoiding spills, keeping hands clean at all times and not rubbing eyes with hands while working in the laboratory.

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide for experienced personnel. Cell Signaling Technology, Inc., shall not be held liable for any damage resulting from the handling of or from contact with the above product. The burden of safe use of this material rests entirely with the user.