



Material Safety Data Sheet

Section 1 - Chemical Product and Company Identification

Product details:	Aqueous formulation of Tetramethylbenzidine
Trade name:	1X eBioscience TMB Substrate Solution
Chemical Family:	
Manufacturer/Supplier:	eBioscience, Inc. 10255 Science Center Drive San Diego, Ca 92121 888-999-1371

Section 2 - Composition / Information on Ingredients

Component	CAS#	EC#	% By Weight
Proprietary	N/A	N/A	N/A

Section 3 - Hazards Identification

<p>Hazard description: This product contains no hazardous constituents, or the concentration of all chemical constituents are below the regulatory threshold limits described by Occupational Safety Health Administration Hazard Communication Standard 29CFR 1910.1200 and the European Directive 91/155/EEC, and 93/112/EC.</p> <p>Classification system The classification was made according to the latest editions of the international substances lists, and expanded upon from company and literature data.</p> <p>NFPA ratings (scale 0-4) Health = 0 Fire = 0 Reactivity = 0</p>

Section 4 - First Aid Measures

Eye Contact:	Irritant. Check for contact lenses and remove if present. Flush eyes with large volumes of water for at least 15 minutes. Seek medical attention if eyes remain red and/or irritated.
Skin Contact:	Irritant. Wash contact areas thoroughly with soap and water after handling. Seek medical attention if area remains irritated. Immediately remove contaminated clothing; contaminated clothing should not be worn until after it has been properly cleaned.
Ingestion:	Seek medical attention or call poison control center immediately.
Inhalation:	Remove from further exposure. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek medical attention immediately.

Section 5 - Fire Fighting Measures

<p>Suitable extinguishing agents CO₂, ABC multipurpose dry chemical or water spray. Fight larger fires with water supply or alcohol resistant foam.</p> <p>Protective equipment: No special measures required.</p>

Section 6 - Accidental Release Measures

<p>Person-related safety precautions: Not required.</p> <p>Measures for environmental protection: Wipe up with damp sponge or mop.</p> <p>Measures for cleaning/collecting: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders).</p> <p>Additional information: No dangerous substances are released.</p>
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Section 7 - Handling and Storage

<p>Handling Information for safe handling: No special measures required. Information about protection against explosions and fires: No special measures required.</p> <p>Storage Requirements to be met by storerooms and receptacles: 4 C Information about storage in one common storage facility: Store away from oxidizing agent. Further information about storage conditions: None</p>

Section 8 - Exposure Control / Personal Protection

Ventilation Data: Provide adequate local exhaust ventilation.
Respiratory Protection: None required if ventilation is adequate.
Protective Gloves: Wear chemical resistant gloves.
Other Protective Equipment: Eye protection, lab coat, apron or other protective clothing to minimize contact. Eyewash stations and deluge showers should be available.
Work Practices: Observe appropriate laboratory hygiene practices. Avoid contact with skin or eyes. Wash any exposed body area thoroughly with soap and water after completion of activities involving product.

Section 9 - Physical and Chemical Properties

General Information	
Physical State:	Liquid
Color:	Clear / Light yellow
Odor:	Characteristic
Change in condition:	Undetermined
Melting point/melting range:	Not determined
Boiling point/boiling range:	Not determined
Flash point:	Not applicable
Danger of explosion:	Product does not present an explosion hazard.
Vapor pressure:	Not applicable
Density:	Not determined
Solubility with water:	Insoluble
pH-value:	Not applicable

Section 10 - Stability and Reactivity

Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
Materials to be avoided: Incompatible material: Strong oxidizers.
Dangerous reactions: No dangerous reactions known
Dangerous products of decomposition: No dangerous decomposition products known

Section 11 - Toxicological Information

Acute toxicity:

Primary irritant effect:

Skin: No irritant effect.

Eye: No irritating effect.

Sensitization: No sensitizing effects known.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

The substance is not subject to classification.

Section 12 - Ecological Information

Ecotoxicological effects:

Other information: The ecological effects have not been thoroughly investigated, but currently none have been identified.

General notes: Generally not hazardous for water.

Section 13 - Disposal Considerations

Product:

Recommendation

Must adhere to state and federal regulations.

Smaller quantities can be disposed of with solid waste.

Disposal must be made according to the regulations found in 40 CFR 261.

This product is not considered a RCRA hazardous waste.

Uncleaned packagings:

Recommendation: Disposal must be made according to state and federal regulations.

Recommended cleansing agent: Water, if necessary with cleansing agents.

Section 14 - Transport Information

DOT regulations
Hazard Class: Non hazardous for transport
Land transport
ADR/RID class: Non hazardous for transport
Maritime transport
IMDG Class:
Marine pollutant: No
Air transport
ICAO/IATA Class: Non hazardous for air transport

Transport/Additional information:

If a dashed line appears in the Hazard Class section for the type of transportation, this indicates the product is not regulated for transportation. However, if a Hazard Class Number is listed, the product is regulated.

Section 15 - Regulatory Information

<p>SARA Section 355 (extremely hazardous substances) Substance is not listed.</p> <p>SARA Section 313 (specific toxic chemical listings) Substance is not listed.</p> <p>TSCA (Toxic Substances Control Act) Substance is not listed.</p> <p>California Proposition 65 – Chemicals known to cause cancer Substance is not listed.</p> <p>California Proposition 65 – Chemicals known to cause reproductive toxicity Substance is not listed.</p>
<p>Carcinogenicity categories</p> <p>IARC (International Agency for Research on Cancer) Substance is not listed.</p> <p>NTP (National Toxicology Program) Substance is not listed.</p> <p>TLV (Threshold Limit Value established by ACGIH) Substance is not listed.</p>
<p>Product related hazard information: Observe the general safety regulations when handling chemicals. The substance is not subject to classification according to the sources of literature known to us. The product is not subject to identification regulations pertaining to regulations on hazardous materials.</p> <p>National regulations</p> <p>Water hazard class: Generally not hazardous for water.</p>

Section 16 - Other Information

Information given herein is offered in good faith as accurate, but without guarantee. Conditions of use and suitability of the product for particular uses are beyond our control: all risks of use of the product are therefore assumed by the user.

Preparation Date: 09/19/2008