

# Material Safety Data Sheet

(ready to use for ELISA)

## TMB ELISA Substrate

**Catalog #:** MBS539294

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Emergency: Call 911 in the USA or Contact your local emergency responder.

Observe proper good laboratory procedures. Use in well ventilated areas. It is recommended to wear disposable gloves, lab coats and suitable protective eyewear when using this and other research products.

### Hazards Identification:

**Emergency Overview:** This product does not contain any substances above any specific or generic concentration limits according to EC directives or respective national laws.

**Classification of the mixture:** This product does not contain any substances above any specific or generic concentration limits according to EC directives or respective national laws.

**Label Elements:** This product does not need to be labeled with any hazard elements.

**Other Hazards:** None known. To the best of our knowledge the chemical, physical and toxicological properties of the product have not been thoroughly investigated.

### Composition and information on ingredients:

#### **Substance:**

3,3',5,5' – tetramethylbenzidine (CAS# 54827-17-7)

Hydrogen Peroxide (CAS # 7722-84-1)

#### **Amount:**

< 0.06%

< 0.03%

### Physical and Chemical Properties:

**Appearance:** Clear liquid, colorless to pale straw color

Aqueous solution, pH 4.9 ± 0.03

**Oxidation properties:** Readily oxidized by oxidizing agents such as common metal cations and trace metals, forming blue or yellow colored products.

**Stability:** Stable under recommended use and storage conditions

### Fire and Explosion Hazard Data

Extinguishing Media: Water, Foam, Dry Chemical, CO<sub>2</sub>

Special Firefighting Precautions: Use respirator and protective clothing. Not flammable or

combustible. Toxic fumes may be released if involved with a fire, including oxides of carbon, nitrogen and formation of hydrochloric acid.

### **Health Hazard Data**

Inhalation: Adverse health effects from vapors and spray mists in poorly ventilated areas may include irritation of the mucous membranes of the nose, throat, respiratory tract and symptoms of headache and nausea.

Skin Contact: Prolonged and repeated contact with product may cause skin irritation.

Eye Contact: Direct contact with product may cause eye irritation.

### **Spill or Leak Procedures**

Wear personal protective equipment, avoid breathing mist or vapors, ensure adequate ventilation. Evacuate personnel to a safe location.

Collect liquid as chemical waste or absorb using an inert absorbent material such as towels, vermiculite, dry earth or sand and dispose of as chemical waste. Do not let product enter into drains or waterways.

Dispose of the material through a licensed chemical waste disposal service. Observe all national, state and local environmental regulations.

CAUTION: Not for use in humans or clinical diagnosis: This product is intended for research or manufacturing use only. It is pharmaceutically unrefined. It is the User's responsibility to verify its suitability for use as a clinical diagnostic reagent and in compliance with all Federal and State laws regulating such applications. There is no expressed or implied warranty. No liability is assumed for fitness of purpose, or merchantability, or direct or consequential damages. The User assumes all responsibility for care, custody and control of the material, including its disposal, in accordance with all regulations.

### **OTHER INFORMATION:**

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. MyBioSource, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product.