

**Safety Data Sheet**

According to Regulation (EC) No 1272/2008 (CLP) and GHS

**SDS summary**Product name: **ELISA substrate: TMB for HRP**Product code: **3652-F10**

Component	Substance/Mixture	CAS No.	EC No.	Conc.	Hazard pictogram code	Hazard statements
TMB substrate	3,3',5,5' Tetramethylbenzidine	54827-17-7	259-364-6	< 1 %	N/A	Not hazardous at this concentration
	Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	7722-84-1	231-765-0	< 0.1 %		

If applicable, components listed in the summary above are further specified below into 16 sections according to the Regulation (EC) No 1272/2008 (CLP) and GHS.

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name: ELISA substrate: TMB for HRP  
Component: TMB substrate  
Substance/Mixture: 3,3',5,5' Tetramethylbenzidine  
Hydrogen peroxide  
(H<sub>2</sub>O<sub>2</sub>)

### 1.2 Relevant identified uses and uses advised against

Recommended use: Laboratory chemical for research use only  
Uses advised against: No information available

### 1.3 Supplier

Mabtech AB  
Box 1233,  
SE 131 28 Nacka Strand, Sweden  
Tel: +46 8 716 27 00  
Email: [mabtech@mabtech.com](mailto:mabtech@mabtech.com)

### 1.4 Emergency telephone number

Contact your local emergency number.

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## SECTION 2: Hazards identification

### 2.1 Classification of mixture

According to Regulation (EC) No 1272/2008 (CLP)  
**Not hazardous at this concentration.**

#### Hazard pictogram

N/A

#### Signal word

N/A

#### Precautionary statements:

N/A

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## SECTION 3: Composition/information on ingredients

### 3.1 Description of the mixture

**3,3',5,5' Tetramethylbenzidine and Hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>).**

### 3.2 Hazardous ingredients

Substance	CAS No.	EC No.	Conc.	Classification according to Regulation (EC) No 1272/2008 [CLP]
3,3',5,5' Tetramethylbenzidine	54827-17-7	259-364-6	< 1	Not hazardous at this concentration
Hydrogen peroxide (H <sub>2</sub> O <sub>2</sub> )	7722-84-1	231-765-0	< 0.1	

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- a) Following inhalation:  
**Move into fresh air. Seek medical attention for any breathing difficulty.**
- b) Following skin contact:  
**Wash with water and soap, rinse thoroughly. In case of skin irritation seek medical attention.**
- c) Following eye contact:  
**Rinse opened eye for several minutes under running water. Seek medical attention.**
- d) Following ingestion:  
**Rinse mouth with water. Do not swallow. Seek medical attention.**

#### 4.2 Most important symptoms and effects

**Not determined.**

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### **SECTION 5: Firefighting measures**

#### 5.1 General information

**Not flammable or combustible.**

#### 5.2 Extinguishing media

**Use foam, CO<sub>2</sub> or dry agent for extinction.**

#### 5.3 Special hazards arising from the substance or mixture

**Toxic gases and vapours may be released if involved in a fire.**

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### **SECTION 6: Accidental release measures**

#### 6.1 Personal precautions, protective equipment and emergency procedures

**Use gloves, eye protection and good hygienic practices.**

#### 6.2 Environmental precautions

**None in particular.**

#### 6.3 Methods and material for containment and cleaning up

**Use paper towels to absorb the liquid.**

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### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

**Keep container tightly closed.**

#### 7.2 Technical measures and storage conditions

**Store in amber coloured glass or plastic bottles at 2 -8 °C. Not compatible with some metal ions, such as iron. Do not use rubber stoppers or caps with rubber rings.**

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### **SECTION 8: Handling and storage**

#### 8.1 Exposure controls/personal protection

**None in particular.**

#### 8.2 Personal protective equipment

- a) Eye protection **Recommended**
- b) Hand protection **Recommended**

c) Skin and body protection	<b>Recommended</b>
d) Respiratory protection	<b>No specific requirements</b>
e) Thermal hazards	<b>No specific requirements</b>

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

a) Physical state at room temperature	<b>Liquid</b>
b) Appearance	<b>Clear to slightly yellow</b>
c) Odour	<b>Odourless</b>
d) pH	<b>Not determined</b>
e) Melting/freezing point	<b>Not determined</b>
f) Boiling point/range	<b>Not determined</b>
g) Flash point	<b>Not determined</b>
h) Evaporation rate	<b>Not determined</b>
i) Flammability (solid, gas)	<b>Not determined</b>
j) Flammability in air	<b>Not determined</b>
a) Upper flammability limit	<b>Not determined</b>
b) Lower flammability limit	<b>Not determined</b>
k) Vapour pressure	<b>Not determined</b>
l) Vapour density	<b>Not determined</b>
m) Relative density	<b>Not determined</b>
n) Water solubility	<b>Soluble</b>
o) Solubility in other solvents	<b>Not determined</b>
p) Auto ignition temperature	<b>Not self-igniting</b>
q) Decomposition temperature	<b>Not determined</b>
r) Viscosity, kinematic	<b>Not determined</b>
s) Explosive properties	<b>No information available</b>

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## SECTION 10: Stability and reactivity

### 10.1 Chemical stability

**Stable under recommended use and storage conditions.**

### 10.2 Possibility of hazardous reactions

**No hazardous reactions known.**

### 10.3 Conditions to avoid

**Elevated temperature.**

### 10.4 Incompatible materials

**Not compatible with metal ions such as iron or rubber material.**

### 10.5 Hazardous decomposition products

**Decomposition products can include carbon oxides.**

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute toxicity:  
**No toxic effects known.**
- Skin corrosion/irritation.  
**May cause irritation and redness.**

- c) Eye damage/irritation:  
**May cause irritation and redness.**
  - d) Sensitization to the respiratory tract/skin:  
**May cause irritation.**
  - e) Carcinogenicity:  
**Not determined.**
  - f) Reproductive toxicity:  
**Not determined.**
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## SECTION 12: Ecological information

### 12.1 Toxicity

- a) Aquatic toxicity:  
**No information available.**
- b) Sediment toxicity:  
**No information available.**
- c) Terrestrial toxicity:  
**No information available.**

### 12.2 Persistence and degradability

**No information available.**

### 12.3 Bioaccumulative potential

**No information available.**

### 12.4 Mobility in soil

**No information available.**

### 12.5 Results of PBT and vPvB assessment

**Not applicable.**

### 12.6 Other adverse effects

**No further relevant information available.**

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- a) Waste from residues or unused products:  
**Dispose the non-hazardous waste according to local regulations.**
  - b) Packaging:  
**Empty container is not considered as hazardous waste. Do not reuse empty containers.**
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## SECTION 14: Transport information

### 14.1 Transport hazard classes

- a) ADR:  
**This product does not require a classification for transport.**
  - b) IATA:  
**This product does not require a classification for transport.**
  - c) DOT:  
**This product does not require a classification for transport.**
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## SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

**No information available.**

15.2 Chemical safety assessment

**No information available.**

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## **SECTION 16: Other information**

The information in this SDS is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The product is supplied for research use only. Mabtech shall not be liable for the use or handling of the product or for consequential, special, indirect or incidental damage therefrom.

**END of SDS**