

Safety Data Sheet

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

SDS summaryProduct name: **ELISpot substrate: TMB for HRP**Product code: **3651-10**

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 ₂ O ₂)	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: **ELISpot substrate: TMB for HRP**
Component: **TMB substrate**
Substance/Mixture **3,3',5,5' Tetramethylbenzidine
Hydrogen peroxide
(H₂O₂)**

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

1.4 Emergency telephone number

Contact your local emergency number.

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

SECTION 3: Composition/information on ingredients

3.1 Description of the mixture

3,3',5,5' Tetramethylbenzidine and Hydrogen peroxide (H₂O₂).

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 ₂ O ₂)	7722-84-1	231-765-0	< 0.1	

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.

SECTION 5: Firefighting measures

5.1 General information

Not flammable or combustible.

5.2 Extinguishing media

Use foam, CO₂ 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.

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.

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.

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	Recommended
d) Respiratory protection	No specific requirements
e) Thermal hazards	No specific requirements

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- a) Acute toxicity:
No toxic effects known.
- b) 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.

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.

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