

## Safety Data Sheet

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

### SDS summary

Product category: **ELISpot Plus (HRP)**

Product code: **3530-4HPW-10, 3530-4HPW-2**

Component	Substance/Mixture	CAS No.	EC No.	Conc.	Hazard pictogram code	Hazard statements
Pre-coated plates, Anti-CD3 antibody, Anti-CD28 antibody	N/A	N/A	N/A	N/A	N/A	N/A
Biotinylated detection antibody	Sodium azide	26628-22-8	247-852-1	0.02%	N/A	Not hazardous at this concentration
Streptavidin-HRP	<b>Kathon CG,</b> contains a mixture of:	55965-84-9				Not hazardous at this concentration
	5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	247-500-7	<0.002%	N/A	
	2-Methyl-4-isothiazolin-3-one	2682-20-4	220-239-6	<0.002%		
Substrate (TMB)	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 category: **ELISpot Plus (HRP)**  
Component: **Biotinylated detection antibody**  
Substance/Mixture: **Sodium Azide**

### 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

**Sodium azide**

### 3.2 Hazardous ingredients

Substance	CAS No.	EC No.	Conc.	Classification according to Regulation (EC) No 1272/2008 [CLP]
Sodium azide	26628-22-8	247-852-1	0.02%	Not hazardous at this concentration.

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Following inhalation:  
**Move into fresh air. Seek medical attention for any breathing difficulty.**
- Following skin contact:  
**Wash with soap and plenty of water. Seek medical attention if irritation persists.**

- c) Following eye contact:  
**Rinse opened eye for several minutes under running water and seek medical attention.**
- d) Following ingestion:  
**Rinse mouth with water. Seek medical attention.**

#### 4.2 Most important symptoms and effects

**No information available.**

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

#### 5.1 General information

**Not flammable or combustible.**

#### 5.2 Extinguishing media

**No known restrictions; use any means suitable for nearby fire.**

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

**None in particular.**

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

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

**Use gloves 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

**None in particular.**

#### 7.2 Technical measures and storage conditions

**Store according to product specifications.**

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Exposure controls/personal protection

**None in particular.**

#### 8.2 Personal protective equipment

- |                             |                                 |
|-----------------------------|---------------------------------|
| a) Eye protection           | <b>Recommended</b>              |
| b) Hand protection          | <b>Recommended</b>              |
| 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</b>
c) Odour	<b>Minimal odour</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>Substance/Mixture is not self-igniting</b>
q) Decomposition temperature	<b>Not determined</b>
r) Viscosity, kinematic	<b>Not determined</b>
s) Explosive properties	<b>Not determined</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

**The sodium azide concentration (0.02%) provided in this product, although not classified as hazardous, can lead to concentration build-ups in drains that may react with lead and copper plumbing to form explosion.**

### 10.3 Conditions to avoid

**Elevated temperature.**

### 10.4 Incompatible materials

**Heavy metals like copper and lead.**

### 10.5 Hazardous decomposition products

**Not determined.**

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- Acute toxicity:  
**No toxic effects.**
- Skin corrosion/irritation:  
**No effects.**
- Eye damage/irritation:  
**No effects.**
- Sensitization to the respiratory tract/skin:  
**No effects.**
- Carcinogenicity:  
**No information available.**

- f) Reproductive toxicity:  
**No information available.**
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## SECTION 12: Ecological information

### 12.1 Toxicity

- a) Aquatic toxicity:  
**Not determined.**
- b) Sediment toxicity:  
**Not determined.**
- c) Terrestrial toxicity:  
**Not determined.**

### 12.2 Persistence and degradability

**Not determined.**

### 12.3 Bioaccumulative potential

**Not determined.**

### 12.4 Mobility in soil

**Not determined.**

### 12.5 Results of PBT and vPvB assessment

**Not determined.**

### 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. Flush drain extensively.**
- b) Packaging:  
**Empty container is not considered as hazardous waste.**
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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.

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

### 1.1 Product identifier

Product category: **ELISpot Plus (HRP)**  
Component: **Streptavidin-HRP**  
Substance/Mixture: **Kathon CG**

### 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

**Kathon CG contains a mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-4-isothiazolin-3-one.**

### 3.2 Hazardous ingredients

Substance	CAS No.	EC No.	Conc.	Classification according to Regulation (EC) No 1272/2008 [CLP]
5-chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	247-500-7	<0.002%	Not hazardous at this concentration.
2-Methyl-4-isothiazolin-3-one	2682-20-4	220-239-6	<0.002%	

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## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Following inhalation:  
**Move into fresh air. Seek medical attention for any breathing difficulty.**
- Following skin contact:

**Wash with soap and plenty of water. Seek medical attention if irritation persists.**

c) Following eye contact:

**Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do so. Continue rinsing. Seek medical attention if irritation persists.**

d) Following ingestion:

**Do not induce vomiting. Rinse mouth with water. Seek medical attention.**

#### 4.2 Most important symptoms and effects

**No information available.**

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

#### 5.1 General information

**Not flammable or combustible.**

#### 5.2 Extinguishing media

**No known restrictions; use any means suitable for nearby fire.**

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

**None in particular.**

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

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

**Use gloves 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

**None in particular.**

#### 7.2 Technical measures and storage conditions

**Store according to product specifications.**

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### **SECTION 8: Exposure controls/personal protection**

#### 8.1 Exposure controls/personal protection

**None in particular.**

#### 8.2 Personal protective equipment

- |                             |                                 |
|-----------------------------|---------------------------------|
| a) Eye protection           | <b>Recommended</b>              |
| b) Hand protection          | <b>Recommended</b>              |
| 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</b>
c) Odour	<b>Minimal odour</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>Substance/Mixture is not self-igniting</b>
q) Decomposition temperature	<b>Not determined</b>
r) Viscosity, kinematic	<b>Not determined</b>
s) Explosive properties	<b>Not determined</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 known hazardous reactions.**

### 10.3 Conditions to avoid

**Elevated temperature.**

### 10.4 Incompatible materials

**Oxidizing and reducing agents, amines and mercaptans.**

### 10.5 Hazardous decomposition products

**Not determined.**

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

- a) Acute toxicity:  
**Not determined.**
- b) Skin corrosion/irritation:  
**Not determined.**
- c) Eye damage/irritation:  
**Not determined.**
- d) Sensitization to the respiratory tract/skin:  
**Not determined.**

- e) Carcinogenicity:  
**No information available.**
  - f) Reproductive toxicity:  
**No information available.**
- 

## SECTION 12: Ecological information

### 12.1 Toxicity

- a) Aquatic toxicity:  
**Not determined.**
- b) Sediment toxicity:  
**Not determined.**
- c) Terrestrial toxicity:  
**Not determined.**

### 12.2 Persistence and degradability

**Not determined.**

### 12.3 Bioaccumulative potential

**Not determined.**

### 12.4 Mobility in soil

**Not determined.**

### 12.5 Results of PBT and vPvB assessment

**Not determined.**

### 12.6 Other adverse effects

**Not determined.**

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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.**
- 

## 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.**
- 

## 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**

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

### 1.1 Product identifier

Product category: **ELISpot Plus (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>Substance/Mixture is 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.**
- 

## 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.**
- 

## 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.**
- 

## 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**