Safety data sheet

According to Regulations (EC) 1907/2006 (REACH) and (EC) 1272/2008 (CLP)

Revision date 2025-02-13

Version number 1.0

SDS summary

Product: **ELISA Pro: Human apoB**

Product codes: **3715-1HP-1, 3715-1HP-2, 3715-1HP-10**

Component	Substance/ Mixture	CAS No.	EC No.	Conc.	Hazard pictogram code	Hazard statements
Sample solvent	**Octylphenoxy polyethoxyethanol** (Triton™ X-100. Triton is a registered trademark of the Dow Chemical Company or its affiliated companies)	9036-19-5	618-541-1	1 %	See section 2	See section 2
Biotinylated detection antibody	Sodium azide	26628-22-8	247-852-1	0.02 %	N/A	Not hazardous at this concentration
Streptavidin-HRP, Wash buffer concentrate (20x), 5x Apo ELISA buffer concentrate, SA-HRP diluent, Sample solvent	**Kathon CG**, contains a mixture of: 5-chloro-2-methyl-4-isothiazolin-3-one 2-Methyl-4-isothiazolin-3-one	55965-84-9 26172-55-4 2682-20-4	 247-500-7 220-239-6	<0.002 %	N/A	Not hazardous at this concentration
TMB substrate	3,3',5,5' Tetramethylbenzidine Hydrogen peroxide (H_2O_2)	54827-17-7 7722-84-1	259-364-6 231-765-0	< 1 % < 0.1 %	N/A	Not hazardous at this concentration
Stop solution	Sulfuric acid H_2SO_4	7664-93-9	231-639-5	0.96%	N/A	Not hazardous at this concentration
Pre-coated 96-well strip plate, ELISA Standard, Standard reconstitution buffer, Adhesive plate covers	N/A	N/A	N/A	N/A	N/A	N/A

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:	**Sample solvent**
Product codes:	**3652-L10, 3652-L2**

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended use:	**Laboratory chemical for research use only**
Uses advised against:	**Any other use is not recommended**

1.3 Details of the supplier of the safety data sheet

Company:	**Mabtech AB**
Adress:	**Box 1233,**
	SE 131 28 Nacka Strand, Sweden
Telephone:	**+46 8 716 27 00**
Email:	**mabtech@mabtech.com**

1.4 Emergency telephone number

Phone number for emergencies: 999, 911, and 112. The numbers are available 24/7.

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Acute toxicity, (Category 4)	H302: Harmful if swallowed.
Skin irritation, (Category 2)	H315: Causes skin irritation.
Serious eye damage, (Category 1)	H318: Causes serious eye damage.
Short-term (acute) aquatic hazard, (Category 1)	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, (Category 1)	H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Pictogram

Signal Word Danger

Hazard statements

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P264	Wash skin thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/ eye protection/ face protection.

P301 + P312	IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental hazard statements None

Reduced labelling Pictogram

Signal word Danger

Hazard statements

H318 Causes serious eye damage.

Precautionary statements

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental hazard statements None

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative, and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.1 Substance

Synonyms: **t-Octylphenoxy polyethoxyethanol**
4-(1,1,3,3-Tetramethylbutyl)phenyl-polyethylene glycol
Polyethylene glycol tert-octylphenyl ether

Formula **$C_{14}H_{22}O(C_2H_4O)_n$ (n=9-10)**

Component	Classification	Concentration
Octylphenol polyethoxyethanol Included in the Candidate List of Substances of Very High Concern (SVHC) according to Regulation (EC) No. 1907/2006 (REACH)		
CAS-No. 9036-19-5 *	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 1; H302, H315, H318, H400, H410	1 %

	M-Factor - Aquatic Acute: 10 - Aquatic Chronic: 1	

*A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, or the annual tonnage does not require a registration. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice
Show this material safety data sheet to the doctor in attendance.

If inhaled
After inhalation: fresh air.

In case of skin contact
In case of skin contact: take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact
After eye contact: rinse out with plenty of water. Immediately call an ophthalmologist. Remove contact lenses.

If swallowed
After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Foam Carbon dioxide (CO_2). Dry powder.

Unsuitable extinguishing media
For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides.
Combustible.
Vapors are heavier than air and may spread along floors.
Forms explosive mixtures with air on intense heating.
Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

5.4 Further information

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment, and emergency procedures
Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection, see section 8.

6.2 Environmental precautions
Do not let product enter drains.

6.3 Methods and material for containment and cleaning up
Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
For precautions, see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities
Storage conditions
Tightly closed.

Storage class
Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end use(s)
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
Ingredients with workplace control parameters.

8.2 Exposure controls
Personal protective equipment

Eye/face protection
Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Tightly fitting safety goggles.

Skin protection
Required

Body Protection
Protective clothing

Respiratory protection
Recommended Filter type: Filter A-(P2)
The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective

devices are carried out according to the instructions of the producer.
These measures have to be properly documented.
Required when vapours/aerosols are generated.
Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387, and other accompanying standards relating to the used respiratory protection system.
Recommended Filter type: Filter type ABEK

Control of environmental exposure
Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a)	Physical state at room temperature	**Viscous liquid**
b)	Color	**Colorless**
c)	Odor	**No data available**
d)	Melting/freezing point	**6 °C**
e)	Initial boiling point/range	**>200 °C at 1, 013 hPa**
f)	Flammability (solid, gas)	**No data available**
g)	Upper/lower flammability or explosive limits	**No data available**
h)	Flash point	**251 °C - closed cup - c.c.**
i)	Autoignition temperature	**No data available**
j)	Decomposition temperature	**No data available**
k)	pH	**5.0-8.0 at 10g/l at 20 °C**
l)	Viscosity	**Viscosity, kinematic: No data available** **Viscosity, dynamic: No data available**
m)	Water solubility	**Soluble at 20 °C**
n)	Partition coefficient: n-octanol/water	**No data available**
o)	Vapor pressure	**<0.01 hPa at 20 °C**
p)	Density	**1.065 g/cm3 at 20 °C**
	Relative density	**No data available**
q)	Relative vapor density	**No data available**
r)	Particle characteristics	**No data available**
s)	Explosive properties	**Not classified as explosive**
t)	Oxidizing properties	**None**

9.2 Other safety information
No data available

SECTION 10: Stability and reactivity

10.1 Reactivity
Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability
The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions
Violent reactions possible with:
Strong oxidizing agents
Strong acids

10.4 Conditions to avoid
Strong heating.

10.5 Incompatible materials
Strong oxidizing agents

10.6 Hazardous decomposition products
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity
LD50 Oral - Rat - 1.900 - 5.000 mg/kg
Remarks: (External MSDS)
Symptoms: Vomiting, Irritations of mucous membranes in the mouth, pharynx, oesophagus and gastrointestinal tract., Risk of aspiration upon vomiting., Aspiration may cause pulmonary edema and pneumonitis.
Acute toxicity estimate Oral - 1.900 mg/kg (ATE value derived from LD50/LC50 value)
Inhalation: No data available
LD50 Dermal - Rabbit - > 3.000 mg/kg
Remarks: (External MSDS)

Skin corrosion/irritation
Skin - Rabbit
Result: irritating - 4 h
(OECD Test Guideline 404)
Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

Serious eye damage/eye irritation
Eyes - Rabbit
Result: Risk of serious damage to eyes.
(Draize Test)
Remarks: Risk of corneal clouding.

Respiratory or skin sensitization
Sensitisation test: - Human
Result: negative
Remarks: (External MSDS)
Patch test on human volunteers did not demonstrate sensitization properties.

Germ cell mutagenicity
No data available

Carcinogenicity
No data available

Reproductive toxicity
Ingestion of excessive amounts by pregnant animals resulted in maternal and fetal toxicity. Did not show teratogenic effects in animal experiments.

Specific target organ toxicity - single exposure
Acute oral toxicity – Vomiting. Irritations of mucous membranes in the mouth, pharynx, oesophagus

and gastrointestinal tract. Risk of aspiration upon vomiting. Aspiration may cause pulmonary edema and pneumonitis.

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

11.2 Additional information
Endocrine disrupting properties

Assessment	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. Other dangerous properties cannot be excluded. Handle in accordance with good industrial hygiene and safety practice.	

SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish	semi-static test LC50 - Leuciscus idus (Golden orfe) - 0,26 mg/l - 96 h (OECD Test Guideline 203) Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol
Toxicity to daphnia and other aquatic invertebrates	static test EC50 - Daphnia magna (Water flea) - 0,011 mg/l - 48 h Remarks: (ECOTOX Database) The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol
Toxicity to algae	static test EC50 - Pseudokirchneriella subcapitata (green algae) - 1,9 mg/l - 96 h Remarks: (ECHA) The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol
Toxicity to fish (Chronic toxicity)	flow-through test NOEC - Danio rerio (zebra fish) - 0,012 mg/l (OECD Test Guideline 210) Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	semi-static test NOEC - Daphnia magna (Water flea) - 0,03 mg/l - 21 d (OECD Test Guideline 202) Remarks: The value is given in analogy to the following substances: 4-(1,1,3,3-tetramethylbutyl)phenol

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 Results of PBT and vPvB assessment
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:	
Assessment:	This substance/mixture contains components considered to have endocrine disrupting properties for environment, according to REACH Article 57(f), Commission Regulation (EU) 2018/605 or Commission Delegated Regulation (EU) 2017/2100.
Components:	
Octylphenol polyethoxyethanol	
Assessment:	The substance is considered to have endocrine disrupting properties according to REACH Article 57(f) for the environment.

12.7 Other adverse effects
No data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods
Waste material should be disposed according to local regulations.

SECTION 14: Transport information

14.1 UN number
ADR/RID: 3082 IMDG: 3082 IATA: 3082

14.2 UN proper shipping name

ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IATA: Environmentally hazardous substance, liquid, n.o.s.

14.3 Transport hazard class(es)
ADR/RID: 9 IMDG: 9 IATA: 9

14.4 Packaging group

ADR/RID: III IMDG: III IATA: III

14.5 Environmental hazards

ADR/RID: yes IMDG Marine pollutant: yes IATA: yes

14.6 Special precautions for user

Tunnel restriction code: (-)

Further information
EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids. Packages smaller than or equal to 5 kg / L, not dangerous goods of Class 9.

SECTION 15: Regulatory information

15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture
This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

Authorisations and/or restrictions on use

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	Octylphenol polyethoxyethanol

This product contains a substance listed on Annex XIV of the REACH Regulation (EC) Nr. 1907/2006.

Listed substance / Sunset Date	Octylphenol polyethoxyethanol / 04.01.2021

After the sunset date the use of this substance requires either an authorization or can only be used for exempted uses, e.g., use in scientific research and development which includes routine analytics or use as intermediate.

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	**E1**	ENVIRONMENTAL HAZARDS

Other regulations
Observe work restrictions regarding maternity protection in accordance to Directive 92/85/EEC or stricter national regulations where applicable. Take note of Directive 94/33/EC on the protection of young people at work.

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out.

SECTION 16: Other information

Abbreviations
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; DIN - Standard of the German Institute for Standardisation; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); OECD - Organization for Economic Co-operation and Development; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations PBT - Persistent, Bioaccumulative and Toxic substance; vPvB - Very Persistent and Very Bioaccumulative; SVHC - Substance of Very High Concern; TRGS - Technical Rules for Hazardous Substances

Full text of hazard statements
H302: Harmful if swallowed.
H315: Causes skin irritation.

H318: Causes serious eye damage.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects

Full text of precautionary statements
P264: Wash skin thoroughly after handling.
P273: Avoid release to the environment.
P280: Wear protective gloves/ eye protection/ face protection.
P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.
P302 + P352: IF ON SKIN: Wash with plenty of soap and water.
P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Other relevant 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: **ELISA Pro**
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

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

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.

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 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.

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.

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.

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.

SECTION 8: Exposure controls/personal protection

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

u) Physical state at room temperature	**Liquid**
v) Appearance	**Clear**
w) Odour	**Minimal odour**

x) pH	**Not determined**
y) Melting/freezing point	**Not determined**
z) Boiling point/range	**Not determined**
aa) Flash point	**Not determined**
bb) Evaporation rate	**Not determined**
cc) Flammability (sold, gas)	**Not determined**
dd) Flammability in air	**Not determined**
a) Upper flammability limit	**Not determined**
b) Lower flammability limit	**Not determined**
ee) Vapour pressure	**Not determined**
ff) Vapour density	**Not determined**
gg) Relative density	**Not determined**
hh) Water solubility	**Soluble**
ii) Solubility in other solvents	**Not determined**
jj) Auto-ignition temperature	**Not self-igniting**
kk) Decomposition temperature	**Not determined**
ll) Viscosity, kinematic	**Not determined**
mm) Explosive properties	**Not determined**

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity:
No toxic effects.
b) Skin corrosion/irritation:
No effects.
c) Eye damage/irritation:
No effects.
d) Sensitization to the respiratory tract/skin:
No effects.
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
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. Flush drain extensively.
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.

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: **ELISA Pro**

Component: **Streptavidin-HRP**
Wash buffer concentrate (20x)
ELISA diluent/Assay buffer
SA-HRP diluent
Sample solvent

Substance/Mixture: **Kathon CG**

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

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 %	

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 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.

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.

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.

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.

SECTION 8: Exposure controls/personal protection

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**
c) Odour	**Minimal odour**
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 (sold, 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	**Not determined**

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.

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.

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.

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: **ELISA Pro**
Component: **TMB substrate**
Substance/Mixture **3,3',5,5' Tetramethylbenzidine**
Hydrogen peroxide (H_2O_2)

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 (H_2O_2).

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_2O_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, CO_2 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 (sold, 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.

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.

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.

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: **ELISA Pro**
Component: **Stop solution**
Substance/Mixture: **Sulfuric Acid**

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 dangerous 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

Sulfuric Acid

3.2 Hazardous ingredients

Substance	CAS No.	EC No.	Conc.	Classification according to Regulation (EC) No 1272/2008 [CLP]
Sulfuric Acid	7664-93-9	231-639-5	0.96 %	Not dangerous at this concentration

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:
Remove contaminated clothing. Wash with water and soap, rinse thoroughly. 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.

d) Following ingestion:
Do not induce vomiting. Rinse mouth with water. Consult medical personnel for actions to take.

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

5.3 Special hazards arising from the substance or mixture
None in particular.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Use gloves and good hygienic practices. Eye protection is recommended.

6.2 Environmental precautions
None in particular.

6.3 Methods and material for containment and cleaning up
Absorb on sand or vermiculite and place in closed containers for waste disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
None in particular.

7.2 Technical measures and storage conditions
Store this substance in a corrosive resistant container with a resistant inner liner (or in other specified container type); locked up.

SECTION 8: Exposure controls/personal protection

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**
c)	Odour	**Minimal odour**
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 (sold, 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 known hazardous reactions.

10.3 Conditions to avoid
Elevated temperature.

10.4 Incompatible materials
No information available.

10.5 Hazardous decomposition products
Not determined.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

a) Acute toxicity:
No toxic effects.
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 and redness.

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
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.

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.

SECTION 16: Other information

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End of SDS