

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 14.06.2019 replaces version from:

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC7400kg
Product name: Pancreatic Elastase ELISA Conjugate (CONJ)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Lise-Meitner-Str. 13
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008

none

2.2. Label elements (Regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280

P302 + P352

P305 + P351 + P338

P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
54-64-8	200-210-4	Thimerosal	<0,02	300, 310, 330, 373, 400, 410

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture
Ambient fire may cause evolution of nitrous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution
Do not empty into drains

6.3. Methods and materials for containment and cleaning up
Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections
For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling
Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

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

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
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26172-55-4	5-Chlor-2-methyl-4-isothiazolin-3-on	0,05 mg/m ³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m ³
54-64-8	Thimerosal (Hg containing)	0,02 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid, slightly foaming when shaken
Colour	colourless
Odour	characteristic
pH-Value	7,6
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,06 g/ml
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances

no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid
Heat, direct sunlight

10.5. Incompatible materials
Heavy metal salts, peroxidases, catalases

10.6. Hazardous decomposition products
No information available.

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
5-Chlor-2-methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	550 mg/kg	Rat
Thimerosal	LD ₅₀ (oral)	75 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information
Quantitative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

Only relevant for the preservatives 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Trout	LC ₅₀ (mg/l)	0,19	
Perch	LC ₅₀ (mg/l)	0,28	
Algae (Skeletonema costatum)	EC ₅₀ (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC ₅₀ (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	0,16	

Only relevant for the preservative Thimerosal.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Catfish	LC ₅₀ (mg/l)	7,5	24

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1
Thimerosal	no information available

12.3. Bio accumulative potential

<u>Substance</u>	<u>Log Pow</u>
Thimerosal	-1,88

Bioaccumulation is not expected because $\log Pow < 1$

No information available for 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

12.4. Mobility in soil

No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

No other effects are known

When using according the instruction ecological danger is not expected

13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

14. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2

H300	Fatal when swallowed
H301	Toxic if swallowed
H310	Fatal when skin contact
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life
H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection
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.
P310 Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 14.06.2019 replaces version from:

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC7400vp
Product name: Pancreativ Elastase ELISA Sample buffer (SAMPLEBUF)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Lise-Meitner-Str. 13
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the mixture (Regulation (EC) No 1272/2008

none

2.2. Label elements (Regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280

P302 + P352

P305 + P351 + P338

P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
26628-22-8	247-852-1	Sodium azide	<0,1	300, 400, 410

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture
Ambient fire may cause evolution of nitrous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution
Do not empty into drains

6.3. Methods and materials for containment and cleaning up
Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections
For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling
Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

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

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
26628-22-8	Sodium azide	0.02 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	7.3
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	1,04
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no auto ignition
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

The reagent is under normal conditions (20-25 °C) chemical stable.

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances

no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid
Heat, direct sunlight

10.5. Incompatible materials
no information available

10.6. Hazardous decomposition products
no information available

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Sodium azide	LD ₅₀ (oral)	27 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information
Quantitative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

Only relevant for the preservative Thimerosal.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Sunfish (<i>Lepomis macrochirus</i>)	LC ₅₀ (mg/l)	0,7	96
Daphnia pulex	EC ₅₀ (mg/l)	4,2	48
Green algae	IC ₅₀ (mg/l)	272	
Photobacterium phosphoreum	EC ₅₀ (mg/l)	38,5	

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
Sodium azide	no information available

12.3. Bio accumulative potential
No information available

12.4. Mobility in soil
No information available

12.5. Results of PBT- and vPvB-assessment
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

When using according the instruction ecological danger is not expected
Danger for drinking water
Do not allow to run into surface water, wastewater or soil.

13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

14. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2

H300	Fatal when swallowed
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
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.
P310	Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 14.06.2019 replaces version from:

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC7400st and 7400ko
Product name: Pancreatic Elastase ELISA Standard and Controls (STD and CTRL)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Lise-Meitner-Str. 13
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the mixture (Regulation (EC) No 1272/2008
none

2.2. Label elements (Regulation (EC) No 1272/2008
Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280
P302 + P352
P305 + P351 + P338
P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
26628-22-8	247-852-1	Sodium azide	<0.1	300, 400, 410

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Fire may cause evolution of dangerous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1. no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
26628-22-8	Sodium azide	0.2 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	6.0
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,06
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid
Heat, direct sunlight

10.5. Incompatible materials
no information available

10.6. Hazardous decomposition products
no information available

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Sodium azide	LD ₅₀ (oral)	27 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information
Quantitative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

Only relevant for the preservative Sodium azide.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Bluegill (<i>Lepomis macrochirus</i>)	LC ₅₀ (mg/l)	0.7	96
Water flea (<i>Daphnia pulex</i>)	EC ₅₀ (mg/l)	4.2	48
Green alga	IC ₅₀ (mg/l)	272	
Photobacterium phosphoreum	EC ₅₀ (mg/l)	38.5	

12.2. Persistence and degradability

<u>Substance</u>	<u>t_{1/2} anaerobe (h)</u>
Sodium azide	no information available

12.3. Bio accumulative potential
No information available

12.4. Mobility in soil
No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

When using according the instruction ecological danger is not expected

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

14. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2008

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2 and 3

H300 Fatal when swallowed

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

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.

P310 Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 08.03.2011 replaces version from:

17. Identification of the substance/preparation and the company/undertaking

17.1. Product identifier
Catalogue no.: IC6500ko
Product name: EDN ELISA Controls (CTRL)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Donnersbergstr. 1
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

18. Hazards identification

2.1. Classification of the mixture (Regulation (EC) No 1272/2008
none

2.2. Label elements (Regulation (EC) No 1272/2008
Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280
P302 + P352
P305 + P351 + P338
P310

19. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
26628-22-8	247-852-1	Sodium azide	<0.2	300, 400, 410

20. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

21. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Fire may cause evolution of dangerous gases

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.

22. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

23. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1. no other specific uses are stipulated

24. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
26628-22-8	Sodium azide	0.2 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

25. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	6.0
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,06
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

26. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid
Heat, direct sunlight

10.5. Incompatible materials
no information available

10.6. Hazardous decomposition products
no information available

27. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Sodium azide	LD ₅₀ (oral)	27 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information
Quantitative data on toxicity of the mixture are not available

28. Ecological information

12.1. Toxicity

Only relevant for the preservative Sodium azide.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Bluegill (<i>Lepomis macrochirus</i>)	LC ₅₀ (mg/l)	0.7	96
Water flea (<i>Daphnia pulex</i>)	EC ₅₀ (mg/l)	4.2	48
Green alga	IC ₅₀ (mg/l)	272	
Photobacterium phosphoreum	EC ₅₀ (mg/l)	38.5	

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
Sodium azide	no information available

12.3. Bio accumulative potential
No information available

12.4. Mobility in soil
No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

When using according the instruction ecological danger is not expected

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

29. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

30. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

31. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2008

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

32. Other information

Text of H-codes mentioned in section 2 and 3

H300 Fatal when swallowed

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

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.

P310 Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 08.03.2011 replaces version from:

33. Identification of the substance/preparation and the company/undertaking

33.1. Product identifier
Catalogue no.: IC6500wp
Product name: Wash buffer conc. (WASHBUF)
EDN

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Donnersbergstr. 1
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

34. Hazards identification

2.1. Classification of the mixture (Regulation (EC) No 1272/2008
none

2.2. Label elements (Regulation (EC) No 1272/2008
Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280
P302 + P352
P305 + P351 + P338
P310

35. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
54-64-8	200-210-4	Thimerosal	0,02	300, 310, 330, 373, 400, 410

36. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

37. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Ambient fire may cause evolution of nitrous gases

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.

38. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

39. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

40. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
54-64-8	Thimerosal (Hg containing)	0.02 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

41. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	7,2
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,06
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

42. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid
Heat, direct sunlight

10.5. Incompatible materials
no information available

10.6. Hazardous decomposition products
no information available

43. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Thimerosal	LD ₅₀ (oral)	75 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information
Quantitative data on toxicity of the mixture are not available

44. Ecological information

12.1. Toxicity

Only relevant for the preservative Thimerosal.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Catfish	LC ₅₀ (mg/l)	7,5	24

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
Thimerosal	no information available

12.3. Bio accumulative potential

No information available

<u>Substance</u>	<u>Log Pow</u>
Thimerosal	-1,88

Bioaccumulation is not expected because log Pow < 1

12.4. Mobility in soil
No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

When using according the instruction ecological danger is not expected

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

45. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

46. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

47. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

48. Other information

Text of H-codes mentioned in section 2

H300 Fatal when swallowed

H310 Fatal when skin contact

H330 Fatal if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

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.

P310 Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 24.11.2015 replaces version from: 08.03.2011

49. Identification of the substance/preparation and the company/undertaking

49.1. Product identifier
Catalogue no.: IC6500vp
Product name: Sample buffer (SAMPLEBUF)
EDN

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Donnersbergstr. 1
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

50. Hazards identification

2.1. Classification of the mixture (Regulation (EC) No 1272/2008
none

2.2. Label elements (Regulation (EC) No 1272/2008
Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280
P302 + P352
P305 + P351 + P338
P310

51. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
54-64-8	200-210-4	Thimerosal	0,02	300, 310, 330, 373, 400, 410

52. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

53. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Ambient fire may cause evolution of nitrous gases

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.

54. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

55. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

56. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
54-64-8	Thimerosal (Hg containing)	0.02 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

57. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	7.2
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	1,06
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no auto ignition
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

58. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid
Heat, direct sunlight

10.5. Incompatible materials
no information available

10.6. Hazardous decomposition products
no information available

59. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Thimerosal	LD ₅₀ (oral)	75 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information
Quantitative data on toxicity of the mixture are not available

60. Ecological information

12.1. Toxicity

Only relevant for the preservative Thimerosal.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Catfish	LC ₅₀ (mg/l)	7,5	24

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
Thimerosal	no information available

12.3. Bio accumulative potential

No information available

<u>Substance</u>	<u>Log Pow</u>
Thimerosal	-1,88

Bioaccumulation is not expected because log Pow < 1

12.4. Mobility in soil
No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

When using according the instruction ecological danger is not expected

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

61. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

62. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

63. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

64. Other information

Text of H-codes mentioned in section 2

H300 Fatal when swallowed

H310 Fatal when skin contact

H330 Fatal if inhaled

H373 May cause damage to organs through prolonged or repeated exposure

H400 Very toxic to aquatic life

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

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.

P310 Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 08.03.2011 replaces version from:

65. Identification of the substance/preparation and the company/undertaking

65.1. Product identifier
 Catalogue no.: IC6500su
 Product name: EDN TMB-Substrate (SUB)

1.2. Relevant identified uses of the substance or mixture and uses advised against
 Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
 Donnersbergstr. 1
 64646 Heppenheim
 Tel.: +49 6252 910084
 Fax: +49 6252 910070
 Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

66. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008
 none

2.2. Label elements (Regulation (EC) No 1272/2008
 Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280
 P302 + P352
 P305 + P351 + P338
 P310

67. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
54827-17-7	259-364-6	3,3',5,5'-Tetramethylbenzidine	<0,036	315, 319, 335
60-00-4	205-358-3	Ethylendiamintetraacetic-di-sodium-salt	0,093	319
26172-55-4	247-500-7	5-Chlor-2-methyl-4-isothiazolin-3-on	0,00009	301, 311, 314, 317, 331, 410
2682-20-4	220-239-6	2-Methyl-4-isothiazolin-3-on	0,00003	301, 311, 314, 317, 331, 410
7722-84-1	231-765-0	Hydrogenperoxyde	<0,002	302, 318

68. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed

No information available

4.3. Indication of immediate medical attention and special treatment needed

No information available

69. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Ambient fire may cause evolution of nitrous gases

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.

70. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

71. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

72. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
54827-17-7	3,3',5,5'-Tetramethylbenzidine	not listed
60-00-4	Ethylendiamintetraacetic-di-sodium-salt	not listed
26172-55-4	5-Chlor-2-methyl-4-isothiazolin-3-on	0,05 mg/m ³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m ³
7722-84-1	Hydrogenperoxide	1,4 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

73. Physical and chemical properties

Form	liquid, slightly foaming when shaken
Colour	colourless
Odour	characteristic
pH-Value	3,6-3,8
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,003 g/ml
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

74. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances

no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid

Heat, direct sunlight

10.5. Incompatible materials

Heavy metal salts, peroxidases, catalases

10.6. Hazardous decomposition products

End product of the decomposition is the yellow diammonia ion of tetramethylbenzidine, which is classified as non dangerous.

75. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
3,3',5,5'-Tetramethylbenzidine	no information available		
Ethylendiamintetraacetic-di-sodium-salt	LD ₅₀ (oral)	2000 mg/kg	Rat
5-Chlor-2-methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	550 mg/kg	Rat
Hydrogenperoxyd	LD ₅₀ (oral)	1232 mg/kg	Rat
	LD ₅₀ (dermal)	3000 mg/kg	Rabbit

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information

Quantative data on toxicity of the mixture are not available

76. Ecological information

12.1. Toxicity

Only relevant for the preservatives 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Trout	LC ₅₀ (mg/l)	0,19	
Perch	LC ₅₀ (mg/l)	0,28	
Algae (Skeletonema costatum)	EC ₅₀ (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC ₅₀ (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	0,16	

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1

12.3. Bio accumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

No other effects are known

When using according the instruction ecological danger is not expected

77. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

78. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

79. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

80. Other information

Text of H-codes mentioned in section 2

H301	Toxic if swallowed
H302	Harmful when swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Cause skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H410	Toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
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.
P310	Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 08.03.2011 replaces version from:

81. Identification of the substance/preparation and the company/undertaking

81.1. Product identifier
Catalogue no.: IC6500sp
Product name: EDN ELISA Stop solution (STOPP)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Donnersbergstr. 1
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

82. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008

Irritant

2.2. Label elements (Regulation (EC) No 1272/2008

Hazard pictograms (reduced labelling <125 ml)



Signal word

Warning

Hazard statements

H290

H314

Precautionary statements

P280

P302 + P352

P305 + P351 + P338

P310

83. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes
7664-93-9	231-639-5	Sulfuric acid	<15	H290, H314

84. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed

Irritation and corrosion, circulatory collapse.

4.3. Indication of immediate medical attention and special treatment needed

No information available

85. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Not combustible

Ambient fire may cause hazardous gases

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.

86. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

87. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

88. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
7664-93-9	Sulfuric acid	0,1 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

89. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	approx. 1
Melting point	no information available
Boiling point	101 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	1,066 g/cm ³
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	oxidising potential
Other data	none

90. Stability and reactivity

10.1. Reactivity

has a corrosive effect

Oxidising agents

10.2. Chemical stability

The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

Water, alkali metals, alkali compounds, ammonia, alkalines, metals, alkaline earth metals, alkaline earth compounds, metal alloys, acids

No degradation when using according to the specification

10.4. Conditions to avoid

no information available

10.5. Incompatible materials

Tissue, metals, release of hydrogen by reaction with metals

10.6. Hazardous decomposition products

in case of fire: refer to section 5

91. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Sulfuric acid	LD ₅₀ (oral)	510 mg/kg	Rat

Skin irritation
Irritation

Eye irritation
Serious irritation

Genotoxicity
Ames test negative

Specific target organ toxicity
No information available

Aspiration hazard
Based on available data the classification criteria are not met

11.2. Further information

Quantitative data on toxicity of the mixture are not available

92. Ecological information

12.1. Toxicity

Species	Type	Value	Exposition time (h)
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	29	24

12.2. Persistence and degradability
no information available

12.3. Bio accumulative potential
No information available

12.4. Mobility in soil
No information available

12.5. Results of PBT- and vPvB-assessment
A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects
Harmful effect due to pH shift
Danger for drinking water
Do not allow to run into surface water, wastewater or soil.

93. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

94. Transport information

Not supposed to the transport regulation

ADR/RID	UN 2796 sulfuric acid, 8, II
IATA	UN 2796 SULPHURIC ACID, 8, II, Segregation Group: 1 (Acids)
IMDG	UN 2796 SULPHURIC ACID, 8, II

95. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

96. Other information

Text of H-codes mentioned in section 2

H290	May be corrosive to metals
H314	Causes severe skin burns and eye damage

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
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.
P310	Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 08.03.2011 replaces version from:

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC6500kg
Product name: EDN ELISA Conjugate (CONJ)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Donnersbergstr. 1
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008

none

2.2. Label elements (Regulation (EC) No 1272/2008

Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280

P302 + P352

P305 + P351 + P338

P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
26172-55-4	247-500-7	5-Chlor-2-methyl-4-isothiazolin-3-on	<0,005	301, 311, 314, 317, 331, 410
2682-20-4	220-239-6	2-Methyl-4-isothiazolin-3-on	<0,001	301, 311, 314, 317, 331, 410
54-64-8	200-210-4	Thimerosal	<0,01	300, 310, 330, 373, 400, 410

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Ambient fire may cause evolution of nitrous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
26172-55-4	5-Chlor-2-methyl-4-isothiazolin-3-on	0,05 mg/m ³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m ³
54-64-8	Thimerosal (Hg containing)	0,02 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid, slightly foaming when shaken
Colour	colourless
Odour	characteristic
pH-Value	7,6
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,06 g/ml
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid

Heat, direct sunlight

10.5. Incompatible materials

Heavy metal salts, peroxidases, catalases

10.6. Hazardous decomposition products

No information available.

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
5-Chlor-2-methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	550 mg/kg	Rat
Thimerosal	LD ₅₀ (oral)	75 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information

Quantitative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

Only relevant for the preservatives 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Trout	LC ₅₀ (mg/l)	0,19	
Perch	LC ₅₀ (mg/l)	0,28	
Algae (Skeletonema costatum)	EC ₅₀ (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC ₅₀ (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	0,16	

Only relevant for the preservative Thimerosal.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Catfish	LC ₅₀ (mg/l)	7,5	24

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1
Thimerosal	no information available

12.3. Bio accumulative potential

<u>Substance</u>	<u>Log Pow</u>
Thimerosal	-1,88

Bioaccumulation is not expected because log Pow < 1

No information available for 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

12.4. Mobility in soil

No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

No other effects are known

When using according the instruction ecological danger is not expected

13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

14. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2

H300	Fatal when swallowed
H301	Toxic if swallowed
H310	Fatal when skin contact
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H331	Toxic if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
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.
P310	Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 14.06.2019 replaces version from:

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC7400sp
Product name: Pancreatic Elastase ELISA Stop solution (STOPP)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Lise-Meitner-Str. 13
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008

Irritant

2.2. Label elements (Regulation (EC) No 1272/2008

Hazard pictograms (reduced labelling <125 ml)



Signal word

Warning

Hazard statements

H290

H314

Precautionary statements

P280

P302 + P352

P305 + P351 + P338

P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes
7664-93-9	231-639-5	Sulfuric acid	<15	H290, H314

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
Irritation and corrosion, circulatory collapse.

4.3. Indication of immediate medical attention and special treatment needed
No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Not combustible

Ambient fire may cause hazardous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
7664-93-9	Sulfuric acid	0,1 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	approx. 1
Melting point	no information available
Boiling point	101 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	not applicable
Lower explosion limit	no information available
Higher explosion limit	no information available
Vapour pressure	no information available
Relative density	1,066 g/cm ³
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	oxidising potential
Other data	none

10. Stability and reactivity

10.1. Reactivity

has a corrosive effect

Oxidising agents

10.2. Chemical stability

The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

Water, alkali metals, alkali compounds, ammonia, alkalines, metals, alkaline earth metals, alkaline earth compounds, metal alloys, acids

No degradation when using according to the specification

10.4. Conditions to avoid

no information available

10.5. Incompatible materials

Tissue, metals, release of hydrogen by reaction with metals

10.6. Hazardous decomposition products

in case of fire: refer to section 5

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Sulfuric acid	LD ₅₀ (oral)	510 mg/kg	Rat

Skin irritation

Irritation

Eye irritation

Serious irritation

Genotoxicity

Ames test negative

Specific target organ toxicity

No information available

Aspiration hazard

Based on available data the classification criteria are not met

11.2. Further information

Quantitative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	29	24

12.2. Persistence and degradability

no information available

12.3. Bio accumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

Harmful effect due to pH shift

Danger for drinking water

Do not allow to run into surface water, wastewater or soil.

13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

14. Transport information

Not supposed to the transport regulation

ADR/RID UN 2796 sulfuric acid, 8, II

IATA UN 2796 SULPHURIC ACID, 8, II, Segregation Group: 1 (Acids)

IMDG UN 2796 SULPHURIC ACID, 8, II

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2

H290 May be corrosive to metals

H314 Causes severe skin burns and eye damage

Precautionary statements

P280 Wear protective gloves, protective clothing, eye protection

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.

P310 Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 14.06.2019 replaces version from:

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC7400su
Product name: Pancreatic Elastase TMB-Substrate (SUB)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate test kit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Lise-Meitner-Str. 13
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008

none

2.2. Label elements (Regulation (EC) No 1272/2008

Hazard pictograms



Signal word
Danger

Hazard statements

H360D May harm the unborn child

Precautionary statements

P280
P302 + P352
P305 + P351 + P338
P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
872-50-4	212-828-1	N-Methyl-2-pyrrolidon	<5	H315, H319, H360D, H335
54827-17-7	259-364-6	3,3',5,5'-Tetramethylbenzidin	<0,036	315, 319, 335
60-00-4	205-358-3	Ethylendiamintetraacetic-di-natrium-salz	0,093	319
26172-55-4	247-500-7	5-Chlor-2-methyl-4-isothiazolin-3-on	0,00009	301, 311, 314, 317, 331, 410
2682-20-4	220-239-6	2-Methyl-4-isothiazolin-3-on	0,00003	301, 311, 314, 317, 331, 410
7722-84-1	231-765-0	Hydrogenperoxyde	<0,002	302, 318

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glass at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed

No information available

4.3. Indication of immediate medical attention and special treatment needed

No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Ambient fire may cause evolution of nitrous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
872-50-4	N-Methyl-2-pyrrolidon	82 mg/m ³
54827-17-7	3,3',5,5'-Tetramethylbenzidine	not listed
60-00-4	Ethylendiamintetraacetic-di-sodium-salt	not listed
26172-55-4	5-Chlor-2-methyl-4-isothiazolin-3-on	0,05 mg/m ³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m ³
7722-84-1	Hydrogenperoxide	1,4 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid
Colour	colourless
Odour	odourless
pH-Value	3,6-3,8
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,003 g/ml
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Auto ignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances

no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid

Heat, direct sunlight

10.5. Incompatible materials

Heavy metal salts, peroxidases, catalases

10.6. Hazardous decomposition products

End product of the decomposition is the yellow diammonia ion of tetramethylbenzidine, which is classified as non dangerous.

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
N-Methyl-2-pyrrolidon	LD ₅₀ (oral)	3598 mg/kg	Rat
	LC ₅₀ (inhalativ)	<5,1 mg/l	Rat
3,3',5,5'-Tetramethylbenzidine	no information available		
Ethylendiamintetraacetic-di-sodium-salt	LD ₅₀ (oral)	2000 mg/kg	Rat
5-Chlor-2-methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	550 mg/kg	Rat
Hydrogenperoxyd	LD ₅₀ (oral)	1232 mg/kg	Rat
	LD ₅₀ (dermal)	3000 mg/kg	Rabbit

Skin irritation

Slight irritation

Component	Type	Value	Species
N-Methyl-2-pyrrolidon	LD ₅₀ (dermal)	8000 mg/kg	Rabbit

Eye irritation

Slight irritation

CMR effects

No information available

Specific target organ toxicity

May harm the unborn child

Aspiration hazard

No information available

11.2. Further information

Quantative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

N-Methyl-2-pyrrolidon.

<u>Spezies</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Sonnenbarsch	LC ₅₀ (mg/l/96h)	832	
Goldorfe	LC ₅₀ (mg/l/96h)	>500	
Grünalge	IC ₅₀ (mg/l/72h)	>500	
Wirbellose (Daphnia magna)	EC ₅₀ (mg/l/48h)	4897	

Only relevant for the preservatives 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Trout	LC ₅₀ (mg/l)	0,19	
Perch	LC ₅₀ (mg/l)	0,28	
Algae (Skeletonema costatum)	EC ₅₀ (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC ₅₀ (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	0,16	

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerobe (h)</u>
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1

12.3. Bio accumulative potential

No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

No other effects are known

When using according the instruction ecological danger is not expected

13. Disposal consideration

Leftovers should be disposed concerning to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conduct into the recycling process.

14. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2

H301	Toxic if swallowed
H302	Harmful when swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Cause skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H360D	May harm the unborn child
H410	Toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
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.
P310	Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 22.06.2021 replaces version from

1. Identification of the substance/preparation and the company/undertaking

1.1. Product identifier

Catalogue no.: IC7400wp
Product name: pancreatic elastase ELISA wash buffer conc. (WASHBUF)

1.2. Relevant identified uses of the substance or mixture and uses advised against
Materials for use in the appropriate testkit.

1.3. Details of the supplier of the safety data sheet

Company: ImmuChrom GmbH
Lise-Meitner-Str. 13
64646 Heppenheim
Tel.: +49 6252 910084
Fax: +49 6252 910070
Email: info@immuchrom.de
www.immuchrom.de

1.4. Emergency telephone number

Available during the normal working hours +49 6252 910084

2. Hazards identification

2.1. Classification of the substance or mixture (Regulation (EC) No 1272/2008
none

2.2. Label elements (Regulation (EC) No 1272/2008
Hazard pictograms

Signal word

Hazard statements

Precautionary statements

P280
P302 + P352
P305 + P351 + P338
P310

3. Composition/information on ingredients

The mixture contains the substances listed below and substances without dangerous potential.

CAS-No.	EINECS	Description	Percent	H-codes of pure substance
26172-55-4	247-500-7	5-Chlor-2-methyl-4-isothiazolin-3-on	<0,005	301, 311, 314, 317, 331, 410
2682-20-4	220-239-6	2-Methyl-4-isothiazolin-3-on	<0,002	301, 311, 314, 317, 331, 410

4. First aid measures

4.1. Description of first aid measures

General advice: First aider needs to protect himself.

After inhalation: Fresh air, in case of discomfort consult a physician.

After skin contact: Wash with plenty of water, remove contaminated clothing, in case of discomfort consult a physician.

After eye contact: Rinse out with plenty of water. Immediately contact a ophthalmologist.

If swallowed : Give water to drink (two glasses at most). Immediately contact a physician.

4.2. Most important symptoms and effects, both acute and delayed
No information available

4.3. Indication of immediate medical attention and special treatment needed
No information available

5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO₂)

Unsuitable extinguishing media: none

5.2. Special hazards arising from the substance or the mixture

Ambient fire may cause evolution of nitrous gases

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.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation, observe emergency procedures, call an expert.

6.2. Environmental precaution

Do not empty into drains

6.3. Methods and materials for containment and cleaning up

Cover drains. Collect, bind and pump off spills.

6.4. Reference to other sections

For waste treatment refer to section 13

7. Handling and storage

7.1 Precaution for safe handling

Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards.

7.2. Conditions for safe storage, including any incompatibilities

Keep tightly closed.

Store at +2 - +8 °C.

7.3. Specific end uses

Apart from the use mentioned in section 1.2. no other specific uses are stipulated

8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
26172-55-4	5-Chlor-2-methyl-4-isothiazolin-3-on	0,05 mg/m ³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m ³

8.2. Exposure controls

Technical measures to reduce safety risk for the operator should be given priority over the use of personal protective equipment.

Individual protection measures

Hygiene measures: Wear disposable gloves while handling specimens or kit reagents and wash hands thoroughly afterwards. Do not eat, drink, smoke or apply makeup in areas where specimens or kit reagents are handled.

Eye protection: Wear safety glasses.

Hand protection: wear safety gloves

The gloves must comply with the specifications of the directive EC 89/686/EEC and the related standard EN374.

Respiratory protection: Not necessary

Environmental exposure control: Do not empty into drains

9. Physical and chemical properties

Form	liquid
Colour	light yellow
Odour	odourless
pH-Value	7,2
Melting point	no information available
Boiling point	100 °C
Flash point	no information available
Evaporation rate	no information available
Flammability (solid, gas)	no information available
Lower explosion limit	not explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	no information available
Water solubility	complete
Partition coefficient: n-oktanol/water	no information available
Autoignition temperature	no information available
Decomposition temperature	no information available
Viscosity, dynamic	no information available
Explosive properties	not explosive
Oxidizing properties	no information available
Other data	none

10. Stability and reactivity

10.1. Reactivity

no information available

10.2. Chemical stability

Temperature sensitive. The mixture is stable at 2-8 °C up to the expiry date given on the label

10.3. Possibility of hazardous reactions

Risk of explosion and/or toxic gas formation with the following substances
no information available

Violent reactions possible with:

No degradation when using according to the specification

10.4. Conditions to avoid

Heat, direct sunlight

10.5. Incompatible materials

Heavy metal salts, peroxidases, catalases

10.6. Hazardous decomposition products

No information available.

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
5-Chlor-2-methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD ₅₀ (oral)	550 mg/kg	Rat

Skin irritation
Slight irritation

Eye irritation
Slight irritation

CMR effects
No information available

Specific target organ toxicity
No information available

Aspiration hazard
No information available

11.2. Further information

Quantative data on toxicity of the mixture are not available

12. Ecological information

12.1. Toxicity

Only relevant for the preservatives 5-Chlor-2-methyl-4-isothiazolin-3-on und 2-Methyl-4-isothiazolin-3-on.

<u>Species</u>	<u>Type</u>	<u>Value</u>	<u>Exposition time (h)</u>
Trout	LC ₅₀ (mg/l)	0,19	
Perch	LC ₅₀ (mg/l)	0,28	
Algae (Skeletonema costatum)	EC ₅₀ (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC ₅₀ (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC ₅₀ (mg/l)	0,16	

12.2. Persistence and degradability

<u>Substance</u>	<u>t1/2 anaerob (h)</u>
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1

12.3. Bioaccumulative potencial
No information available

12.4. Mobility in soil

No information available

12.5. Results of PBT- and vPvB-assessment

A PBT- and vPvB-assessment is not available, as a chemical safety assessment is not required/not conducted.

12.5. Other adverse effects

No other effects are known

When using according to the instruction ecological danger is not expected

13. Disposal consideration

Leftovers should be disposed according to the regulation 2008/98/EC and/or national and regional regulations.

Uncontaminated packing can be treated as normal waste or conducted into the recycling process.

14. Transport information

Not subject to the transport regulation

ADR/RID

IATA

IMDG

15. Regulatory information

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

This safety data sheet complies with the requirements of the regulation (EC) No. 1907/2006

15.2. Chemical safety assessment

For this product a chemical safety assessment was not carried out

16. Other information

Text of H-codes mentioned in section 2

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H331	Toxic if inhaled
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
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.
P310	Immediately call a POISON CENTER or doctor/physician

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.