

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 05.07.2019 replaces version from 24.11.2015

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

1.1. Product identifier

Catalogue no.: IC6900kg
Product name: Lysozyme ELISA Conjugate (CONJ)

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	<0,001	301, 311, 314, 317, 331, 410
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 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
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
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
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
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	

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 anaerob (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. Bioaccumulative potencial

<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: 05.07.2019 replaces version from 12.12.2014

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

1.1. Product identifier

Catalogue no.: IC6900ko
Product name: lysozyme ELISA Controls (CTRL)

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
Danger

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 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)
26628-22-8	Sodiumazide	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	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
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
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
Quantative 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>
Sunfish (<i>Lepomis macrochirus</i>)	LC ₅₀ (mg/l)	0,7	96
Invertebrate (<i>Daphnia pulex</i>)	EC ₅₀ (mg/l)	4,2	48
Greenalgae	IC ₅₀ (mg/l)	272	
Photobacterium phosphoreum	EC ₅₀ (mg/l)	38,5	

12.2. Persistence and degradability

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

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

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: 05.07.2019 replaces version from 12.12.2014

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

1.1. Product identifier

Catalogue no.: IC6900st
Product name: Lysozyme ELISA Standards (STD)

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
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 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 the 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	Sodiumazide	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	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
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
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
Quantative 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>
Sunfish (<i>Lepomis macrochirus</i>)	LC ₅₀ (mg/l)	0,7	96
Invertebrate (<i>Daphnia pulex</i>)	EC ₅₀ (mg/l)	4,2	48
Greenalgae	IC ₅₀ (mg/l)	272	
Photobacterium phosphoreum	EC ₅₀ (mg/l)	38,5	

12.2. Persistence and degradability

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

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

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: 05.07.2019 replaces version from 12.12.2014

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

1.1. Product identifier

Catalogue no.: IC6900sp
Product name: Lysozyme ELISA Stop solution (STOPP)

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
Irritant

2.2. Label elements (Regulation (EC) No 1272/2008
Hazard pictograms (reduced labeling <125 ml)



Signal word
Danger

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 glasses 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
Autoignition 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. Bioaccumulative 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: 05.07.2019 replaces version from: 15.02.2018

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

1.1. Product identifier

Catalogue no.: IC6900su
Product name: Lysozyme 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: 05.07.2019 replaces version from 24.11.2015

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

1.1. Product identifier

Catalogue no.: IC6900wp
Product name: Lysozyme 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 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 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 the 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)
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
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
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
no information available

10.6. Hazardous decomposition products
no information available

11. 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
Quantative 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>
Catfish	LC ₅₀ (mg/l)	7,5	24

12.2. Persistence and degradability

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

12.3. Bioaccumulative potencial

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 to 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

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.