

Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 10.05.2019 replaces version from 08.03.2011

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

1.1. Product identifier

Catalogue no.: IC6200su

Product name: alpha-1-Antitrypsin ELISA TMB-Substrate (SUB)

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

64646 Heppenheim Tel.: +49 6252 910084 Fax: +49 6252 910070 Email: <u>info@immuchrom.de</u>

www.immuchrom.de

Lise-Meitner-Str. 13

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
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

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 glases 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 dioxyde (CO₂)

Unsuitable extinguishing media: none

- 5.2. Special hazards arising from the substance ort he 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

8. 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	$0,05 \text{ mg/m}^3$
7722-84-1	Hydrogenperoxyd	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, 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 exposive 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 no information available no information available 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, catalses

10.6. Hazardous decomposition products

Endproduct 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	
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

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.

Species	Type	Value	Exposition time (h)
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			
Substance	t1/2 anaerob (h	<u>n)</u>	
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8		

9.1

12.3. Bioaccumulative potencial

2-Methyl-4-isothiazolin-3-on

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 assassment 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

entioned in section 2
Toxic if swallowed
Harmful when swallowed
Toxic in contact with skin
Causes severe skin burns and eye damage
Cause skin irritation
May cause an allergic skin reaction
Causes serious eye damage
Causes serious eye irritation
Toxic if inhaled
May cause respiratory irritation
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 rising.

P310 Immediately call a POISON CENTER or doctor/physician

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