



**Alpha 1 Antitrypsin Clearance ELISA
Material Safety Data Sheet**

Catalog Number: 30-6752

Distributed by:

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Material Safety Data Sheet

1. Name of compound/preparation and manufacturer

1.1 Name of product: Alpha 1 Antitrypsin Clearance ELISA
1.2 Number of Product: 30-6752
1.3 Manufacturer: Immundiagnostik AG
Stubenwald-Allee 8a
64625 Bensheim
Germany
1.4 Manufacturer's contact phone: +49-6251-701-900
1.5 Poison Control Center (US): 1-800-222-1222 (toll free)

2. Composition/Declaration of Components

2.1 Chemical characterization of the preparation:

Aqueous solution

2.2 Dangerous ingredients

CAS-Nr.	Name	Percent	Symbol	R/S Phrases
247-852-1	Sodium azide	0.019	T+	22 41 / 23 26-36
9002-93-1	Triton X 100	0.09	Xn	22-41 / 23 26 36
54-64-8	Thimerosal	0.009	T+	26 27 28-33 / 2 13 28 36 45
6381-92-6	Disodium Ethylenediamine Tetraacetate	0.04	Xn	22 36 37 38/ 26-36
7365-44-8	Tris (hydroxymethyl) aminomethane	0.1	Xi	36 38
54827-17-7	3,3',5,5'-Tetramethylbenzidine	0.02	Xn	22 / 26 36 23
7664-93-9	Sulfuric acid	2.0	Xi	36 38/ 1 2 26 30 45

3. Potential risks

Risk classification: No dangerous goods according to directive 67/548/EWG.

4. First Aid

4.1 General:

Symptoms of poisoning may appear hours after swallowing. As a result, seek medical surveillance for at least 48 hours after the accident.

4.2 After contact with skin:

Wash with plenty of water. Seek medical treatment.

4.3 After contact with eyes:

Hold eyes open and rinse eyes thoroughly with clean water for several minutes. Seek medical treatment.

4.4 After swallowing:

Rinse mouth thoroughly; apply plenty of water. Seek medical treatment.

5. Fire

5.1 Appropriate extinguishing agent:

The product itself is not flammable; adjust fire fighting actions to the requirements of the source fire.

5.2 Danger derived from the product, its combustion products or gases:

No specific risk reported.

5.3 Special protective devices:

No special action required.

6. Involuntary release of product components

6.1 Precautions related to humans:

Avoid contact with eyes or skin.

6.2 Precautions related to the environment:

Prevent entry into the drainage system. Dilute with plenty of water.

6.3 Procedure for cleaning up spills:

Clean up spill with disposable absorbent material such as paper towels. Dispose of contaminated material as stated in paragraph 12.

7. Handling and Storage

7.1 Handling:

Open and handle contents with caution. Avoid aerosolizing and spilling.

7.2 Recommendations regarding danger from spontaneous combustion or explosion:

No special precautions required.

7.3 Storage:

No special requirements for storage.

7.4 Recommendations for storage with other products:

None applicable.

7.5 Other Information regarding storage conditions:

The unopened box should be stored at 2-8°C.

7.6 Classification according to the Ordinance of Flammable Liquids (VbF):

None applicable.

8. Exposure and personal precautions

8.1 Components whose concentration in air needs to be monitored with respect to the maximum allowable concentration at work stations:

CAS-No.	Name	Mode	Value	Unit
247-852-1	Sodium azide	MAC	0.2	mg/m ³
54-64-8	Thimerosal	MAC	0.01	mg/m ³
7664-93-9	Sulfuric acid	MAC	1.0	mg/m ³

8.2 Personal Precautions:

Observe general safety and hygiene precautions:

Maintain universal precautions during the handling of chemicals.

Wear protective garments, keep away food and beverages. Refrain from eating or drinking when handling the product. Wash hands thoroughly after handling the product and remove protective garments.

8.3 Inhalation protection:

Not required.

8.4 Protection of hands:

Wear disposable, protective gloves.

8.5 Protection of eyes:

Wear protective goggles or safety glasses.

9. Stability and Reactivity

9.1 Conditions to avoid: Not specified.

9.2 Substances to avoid: Not specified.

9.3 Dangerous reactions: Not specified.

9.4 Dangerous degradation products: Not specified.

9.5 Further specifications: Contains preservatives listed in paragraph 2.

10. Toxicology

10.1 Acute Toxicity

CAS-No.	Name	Mode	Value	Species
247-852-1	Sodium azide	LD ₅₀ (Oral)	45 mg/kg	Rat
9002-93-1	Triton X 100	LD ₅₀ (Oral)	707 mg/kg	Rat
54-64-8	Thimerosal	LD ₅₀ (Oral)	75 mg/kg	Rat
6381-92-6	Disodium Ethylenediamine Tetraacetate	LD ₅₀ (Oral)	2580 mg/kg	Rat
7365-44-8	Tris (hydroxymethyl) aminomethane	LD ₅₀ (Oral)	5900 mg/kg	Rat
54827-17-17	3,3',5,5'-Tetramethylbenzidine	LD ₅₀ (Oral)	316 mg/kg	Rat
7664-93-9	Sulfuric acid	LD ₅₀ (Oral)	2140 mg/kg	Rat

10.2 Further toxicological specificities:

Quantitative toxicological data is not available. It is known that a long-term exposure to mercurio-organic compounds results in neurological disorders/damage. Beware of absorption via the skin. Sensitive people may experience allergic reactions. Pregnant women should avoid exposure to this product.

10.3 Additional toxicological specificities:

This product has been classified according to the classification procedure specified by the General Classification Guideline of the European Union in its current version:

Harmful

11. Ecological specifications:

11.1 Aqueous Toxicity:

The reagents are, in general, also toxic for marine organisms.

11.2 General Specifications:

Water pollution class 1 (manufacturer's classification): low potential for water pollution.

12. Disposal:

12.1 Product

This product may not be disposed of with household garbage. Do not allow entry into the drainage system. Remaining chemical or preparations are to be disposed of as toxic waste. Please observe local applicable regulations concerning the disposal of toxic waste. Information regarding local disposal laws is available from the local authorities.

12.2 Additional product disposal information:

Recommendation: Dispose of according to local laws.

Recommended cleaning method: Water; use cleaning agents if applicable.

13. Transport regulations:

13.1 Transport/further remarks:

Not classified as a hazardous good according to the guidelines specified above.

14. Regulations:

14.1 Labeling according to the EWG guidelines:

This product has been classified and labeled according to the EU/GefStoffV and 67/548/EWG guidelines.

15. Other specifications:

These specifications were derived from the current knowledge concerning the product. This document informs on the safety aspects of this product but does not constitute either a declaration of product characteristics or a contractual obligation on the part of the manufacturer.