Safety Data Sheet #: SDS-31-EDNHU-E01

Revision: 1.0 **Last Revised:** 22Dec25

Product # 31-EDNHU-E01
Product Name: Eosinophil-Derived Neurotoxin (EDN) ELISA

Hazards classification information for the components below are included in this SDS:

Safety data sheet
According to regulation (EC) No. 1907/2006

Rev.date: 19.09.2025 replaces version from: 14.06.2019

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

1.1. Product identifier
Product name: EDN ELISA Standard and Controls

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem. NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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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

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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

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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 an 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

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5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water, foam, carbon dioxide (CO_2)

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.

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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

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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

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8. Exposure controls/personal protection

8.1. Control parameters

CAS-No.	Description	MAK (TRGS 900)
26628-22-8	Sodium azide	0.2 mg/m³

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
Color	colorless
Odor	odorless
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-octanol/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.

Species	Type	Value	Exposition time (h)
Bluegill (Lepomis macrochirus)	LC_{50} (mg/l)	0.7	96
Water flea (Daphnia pulex)	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

Substance	t1/2 anaerobe (h)
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 to the instructions, ecological danger is not expected
Danger for drinking water
Do not allow to run into surface water, wastewater or soil.

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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.

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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

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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 rising.
P310	Immediately call a POISON CENTER or doctor/physician

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

Rev.date: 10.05.2019 replaces version from:

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

1.1. Product identifier
Product name: EDN ELISA Conjugate

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem. NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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 an 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

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5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water, foam, carbon dioxide (CO_2)

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.

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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

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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

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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/m³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m³
54-64-8	Thimerosal (Hg containing)	0,02 mg/m³

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-octanol/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.

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	

Only relevant for the preservative Thimerosal.

Species	Type	Value	Exposition time (h)
Catfish	LC_{50} (mg/l)	7,5	24

12.2. Persistence and degradability

Substance	t1/2 anaerobe (h)
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

Substance	Log Pow
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 to 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 rising.
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.

Rev.date: 25.07.2019 replaces version from: 10.05.2019

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

1.1. Product identifier
Product name: EDN ELISA Sample Buffer

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem. NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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 an 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 (CO_2)

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
Color	colorless
Odor	odorless
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-octanol/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.

Species	Type	Value	Exposition time (h)
Sunfish (Lepomis macrochirus)	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

Substance	t1/2 anaerobe (h)
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 to the instructions, 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 rising.
P310	Immediately call a POISON CENTER or doctor/physician

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

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

1.1. Product identifier
Product name: EDN ELISA Wash Buffer Conc.

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem. NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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 an 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 (CO_2)

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
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/m³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m³

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
Color	light yellow
Odor	odorless
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-octanol/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
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.

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)
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1

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
No other effects are known
When using according to 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
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 rising.
P310	Immediately call a POISON CENTER or doctor/physician

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

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

1.1. Product identifier
Product name: ELISA Universal Buffer

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem. NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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 an 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 (CO_2)

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

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9. Physical and chemical properties

Form	liquid
Color	colorless
Odor	odorless
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-octanol/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

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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.

Species	Type	Value	Exposition time (h)
Sunfish (Lepomis macrochirus)	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

Substance	t1/2 anaerobe (h)
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 to the instructions, 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 rising.
P310	Immediately call a POISON CENTER or doctor/physician

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

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

1.1. Product identifier
Product name: ELISA TMB-Substrate

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem, NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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 an 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

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5. Fire fighting measures

5.1. Extinguishing media
Suitable extinguishing media: Water, foam, carbon dioxide (CO_2)

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.

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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

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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)
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/m³
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m³
7722-84-1	Hydrogen peroxide	1,4 mg/m³

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 explosive
Higher explosion limit	not explosive
Vapour pressure	no information available
Relative density	1,003 g/ml
Water solubility	complete
Partition coefficient: n-octanol/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
End product of the decomposition is the yellow diammonia ion of tetramethylbenzidine, which is classified as non dangerous.

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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
Quantitative data on toxicity of the mixture are not available

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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)
5-Chlor-2-methyl-4-isothiazolin-3-on	4,8
2-Methyl-4-isothiazolin-3-on	9,1

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
No other effects are known
When using according to the instruction ecological danger is not expected

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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.

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14. Transport information

Not supposed to the transport regulation

ADR/RID

IATA

IMDG

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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

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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
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 rising.
P310	Immediately call a POISON CENTER or doctor/physician

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

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

1.1. Product identifier
Product name: ELISA Stop Solution

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: American Laboratory Products, Inc.
26-G Keewaydin Drive
Salem. NH 03079
Tel.: 603-893-8914
Fax: 603-898-6854
E-mail: cs@alpco.com
www.alpco.com

1.4. Emergency telephone number in the United States and Canada: 911

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
Danger

Hazard statements
H290
H314

Precautionary statements
P280
P301+P330+331
P303+361+353
P305+P351+P338
P308+311

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 an 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 (CO_2)

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.

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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

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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/m³

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
Color	colorless
Odor	odorless
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/cm³
Water solubility	complete
Partition coefficient: n-octanol/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

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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

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12. 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.

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, face protection
P301+P330+331	IF SWALLOWED: rinse mouth. Do not induce vomiting
P303+361+353	IF ON SKIN (or hair): take off immediately all contaminated clothing Rinse skin with water (or shower)
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes Remove contact lenses, if present and easy to da. Continue rinsing
P308+311	IF exposed or concerned: Call a POISON CENTER/doctor

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