

**Safety Data Sheet #: SDS-31-BD2HU-E01**

**Revision:** 1.0      **Last Revised:** 13Jan26

**Product #** 31-BD2HU-E01

**Product Name:**  $\beta$ -Defensin 2 ELISA

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

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$\beta$ -Defensin 2 ELISA Standards and Controls	2
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## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 19.09.2025 replaces version from: 14.06.2019

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

#### 1.1. Product identifier

Product name:  $\beta$ -Defensin 2 ELISA Standards 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

### 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

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## 5. Fire fighting measures

### 5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

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.**  
26628-22-8

**Description**  
Sodium azide

**MAK (TRGS 900)**  
0.2 mg/m<sup>3</sup>

## 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 <sub>50</sub> (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 ( <i>Lepomis macrochirus</i> )	LC <sub>50</sub> (mg/l)	0.7	96
Water flea ( <i>Daphnia pulex</i> )	EC <sub>50</sub> (mg/l)	4.2	48
Green alga	IC <sub>50</sub> (mg/l)	272	
Photobacterium phosphoreum	EC <sub>50</sub> (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 rinsing.

P310 Immediately call a POISON CENTER or doctor/physician

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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.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 25.07.2019 replaces version from: 19.01.2018

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

#### 1.1. Product identifier

Product name:  $\beta$ -Defensin 2 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@alpc.com  
www.alpc.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
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 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<sub>2</sub>)

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)
54-64-8	Thimerosal (Hg containing)	0,02 mg/m <sup>3</sup>

## 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
Thimerosal	LD <sub>50</sub> (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 preservative Thimerosal.

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

12.2. Persistence and degradability

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

12.3. Bioaccumulative potential  
No information available

Substance	Log Pow
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

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
H310	Fatal when skin contact
H330	Fatal if inhaled
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
P302+P352	If on skin: Wash with plenty of soap and water
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician

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

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 25.07.2019 replaces version from: 19.01.2018

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

#### 1.1. Product identifier

Product name:  $\beta$ -Defensin 2 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@alpc.com  
www.alpc.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<sub>2</sub>)

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.**  
26628-22-8

**Description**  
Sodium azide

**MAK (TRGS 900)**  
0.02 mg/m<sup>3</sup>

## 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 <sub>50</sub> (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 ( <i>Lepomis macrochirus</i> )	LC <sub>50</sub> (mg/l)	0,7	96
Daphnia pulex	EC <sub>50</sub> (mg/l)	4,2	48
Green algae	IC <sub>50</sub> (mg/l)	272	
Photobacterium phosphoreum	EC <sub>50</sub> (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. 1907/2006

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

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

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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.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 24.10.2025 replaces version from 07.09.2020

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

#### 1.1. Product identifier

Product name:  $\beta$ -Defensin 2 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<sub>2</sub>)

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 <sup>3</sup>

2682-20-4

2-Methyl-4-isothiazolin-3-on

0,05 mg/m<sup>3</sup>

## 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 <sub>50</sub> (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD <sub>50</sub> (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 <sub>50</sub> (mg/l)	0,19	
Perch	LC <sub>50</sub> (mg/l)	0,28	
Algae (Skeletonema costatum)	EC <sub>50</sub> (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC <sub>50</sub> (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC <sub>50</sub> (mg/l)	0,16	

12.2. Persistence and degradability

Substance	t <sub>1/2</sub> 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 rinsing.
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.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 19.09.2025 replaces version from: 14.06.2019

### 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<sub>2</sub>)

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

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

## 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 <sub>50</sub> (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 ( <i>Lepomis macrochirus</i> )	LC <sub>50</sub> (mg/l)	0,7	96
Daphnia pulex	EC <sub>50</sub> (mg/l)	4,2	48
Green algae	IC <sub>50</sub> (mg/l)	272	
Photobacterium phosphoreum	EC <sub>50</sub> (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. 1907/2006

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

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

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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.

## Safety data sheet

According to regulation (EC) No. 1907/2006

Rev.date: 22.10.2025 replaces version from 05.07.2025

### 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<sub>2</sub>)

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

## 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 <sup>3</sup>
2682-20-4	2-Methyl-4-isothiazolin-3-on	0,05 mg/m <sup>3</sup>
7722-84-1	Hydrogen peroxide	1,4 mg/m <sup>3</sup>

### 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.

## 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 <sub>50</sub> (oral)	2000 mg/kg	Rat
5-Chlor-2-methyl-4-isothiazolin-3-on	LD <sub>50</sub> (oral)	3350 mg/kg	Rat
2-Methyl-4-isothiazolin-3-on	LD <sub>50</sub> (oral)	550 mg/kg	Rat
Hydrogenperoxyd	LD <sub>50</sub> (oral)	1232 mg/kg	Rat
	LD <sub>50</sub> (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

## 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 <sub>50</sub> (mg/l)	0,19	
Perch	LC <sub>50</sub> (mg/l)	0,28	
Algae (Skeletonema costatum)	EC <sub>50</sub> (mg/l)	0,003	
Algae (Selenastrum capricornutum)	EC <sub>50</sub> (mg/l)	0,018	
Invertebrate (Daphnia magna)	EC <sub>50</sub> (mg/l)	0,16	

### 12.2. Persistence and degradability

Substance	t <sub>1/2</sub> 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
H302	Harmful when swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H335	May cause respiratory irritation
H410	Toxic to aquatic life with long lasting effects

Precautionary statements

P280	Wear protective gloves, protective clothing, eye protection
P302+P352	If on skin: Wash with plenty of soap and water
P305+P351+P338	If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER or doctor/physician

---

The information contained herein is based on the present state of our knowledge. It characterizes 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: 19.09.2025 replaces version from: 14.06.2019

### 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@alpc.com  
www.alpc.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

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5. Fire fighting measures

5.1. Extinguishing media

Suitable extinguishing media: Water, foam, carbon dioxide (CO<sub>2</sub>)

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

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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/m <sup>3</sup>

### 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/cm <sup>3</sup>
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

11. Toxicological information

11.1. Information on toxicological effects

Component	Type	Value	Species
Sulfuric acid	LD <sub>50</sub> (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

Species	Type	Value	Exposition time (h)
Invertebrate (Daphnia magna)	EC <sub>50</sub> (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 do. 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.