CE

Material Safety Data Sheet

ANA Screen ELISA

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No: 5102-2
Synonyms: N/A
Intended Use: Laboratory Use

ELISA PLATE

2. Hazard Identification

GHS Classification:
Not classified in accordance to EC No. 1272/2008.
GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statements
None
Precautionary Statements
None

3. Composition/Information on Ingredients

CAS #	Component
Not Available	Poly Foil Pouch
Not Available	Moisture Desiccant
Not Available	96 Well Polystyrene Plate

4. First Aid Measures

First Aid: Eyes
No first aid needed for this route of exposure.
First Aid: Skin
No first aid needed for this route of exposure.
First Aid: Ingestion
No first aid needed for this route of exposure.
First Aid: Inhalation

No first aid needed for this route of exposure.

5. Fire Fighting Measures:

General Fire Hazards
See Section 9 for Flammability Properties.
None
Hazardous Combustion Products
Not Determined.
Extinguishing Media
Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media
None
Fire Fighting Equipment/Instructions
Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization
None
Materials and Methods for Clean-Up
Pick up material and dispose in accordance with applicable requirements.
Emergency Measures
None necessary.
Personal Precautions and Protective Equipment
None necessary.
Environmental Precautions
None
Prevention of Secondary Hazards
None

7. Handling and storage:

Handling Procedures
No special handling procedures needed.
Storage Procedures
No special storage procedures needed.
Incompatibilities
None

8. Exposure Controls / Personal Protection:

Component Exposure Limits
The EU, ACGIH, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom have not developed exposure limits for any of the substances in this preparation.
Engineering Measures
None needed.
Personal Protective Equipment: Respiratory
None needed.
Personal Protective Equipment: Hands

None needed.

Personal Protective Equipment: Eyes

None needed.

Personal Protective Equipment: Skin and Body

None needed

9. Physical/chemical properties

Appearance:	Polystyrene plate in a foil pouch with desiccant.	**Odor:**	None
Physical State:	Solid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	ND	**Specific Gravity:**	ND
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:	NA		

10. Chemical Stability and reactivity Information

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

None

Hazardous Decomposition Products

None

11. Toxicological information

Acute Toxicity

Component Analysis - LD50/LC50

No LD50/LC50's are available for this product's components.

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation
This product is not reported to have any inhalation hazard effects.
Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.
Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.
Carcinogenicity
A: General Product Information
This product is not reported to have any carcinogenic effects.
B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP.
Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.
Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any specific target organ toxicity single exposure effects.
Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any specific target organ toxicity repeat exposure effects.
Aspiration Respiratory Organs Hazard
Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effects.

B: Component Analysis - Ecotoxicity - Aquatic Toxicity
No ecotoxicity data are available for this product's components.

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information

Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):
None
Risk Phrases:
None

16. Other Information

Key/Legend
ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average
Literature References
Available on request.

End of Plate Section

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No:
Synonyms: N/A
Intended Use: Laboratory Use

ELISA Sample Diluent

2. Hazard Identification

GHS Classification:
Not classified in accordance to EC No. 1272/2008.
GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statements
None
Precautionary Statements
None

3. Composition/Information on Ingredients

CAS #	Component
7732-18-5	Water
56-81-5	Glycerin
9048-46-8	Albumins, blood serum
9005-64-5	Polyoxyethylene sorbitan monolaurate
Not Available	Digested Phosphoproteins
26628-22-8	Sodium azide
7558-79-4	Sodium phosphate dibasic
7647-14-5	Sodium chloride
7778-77-0	Dihydrogen potassium phosphate
19381-50-1	C.I. Acid green 1
2682-20-4	2-Methyl-3-isothiazolone

4. First Aid Measures

First Aid: Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

5. Fire Fighting Measures:

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Carbon dioxide may emit trace amounts of toxic vapors and fumes.

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization

None

Materials and Methods for Clean-Up

Attempt to reclaim the free product, if this is possible.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

None necessary.

Environmental Precautions

None

Prevention of Secondary Hazards

None

7. Handling and storage:

Handling Procedures

Wash thoroughly after handling.

Storage Procedures

Maintain containers in a cool, well-ventilated area which is protected from light. Containers should remain sealed while in storage.

Incompatibilities

Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.

8. Exposure Controls / Personal Protection:

Component Exposure Limits

Glycerin (200-289-5) ACGIH:	10 mg/m3 TWA (mist)
Belgium:	10 mg/m3 TWA (mist)
Finland:	20 mg/m3 TWA
France:	10 mg/m3 TWA [VME] (aerosol)
Germany:	50 mg/m3 TWA MAK (inhalable fraction) 100 mg/m3 Peak (inhalable fraction)
Greece:	10 mg/m3 TWA
Ireland:	10 mg/m3 TWA (mist)
Portugal:	10 mg/m3 TWA [VLE-MP] (mist)
Spain:	10 mg/m3 TWA [VLA-ED] (mist)
Sodium azide (247-852-1) ACGIH:	0.29 mg/m3 Ceiling (as NaN3); 0.11 ppm Ceiling (vapor, as Hydrazoic acid)
Austria:	0.3 mg/m3 STEL [KZW] (4 X 15 min) 0.1 mg/m3 TWA [TMW] skin notation
Belgium:	Skin
Denmark:	0.1 mg/m3 TWA Potential for cutaneous absorption
Finland:	0.3 mg/m3 STEL 0.1 mg/m3 TWA Potential for cutaneous absorption
France:	0.3 mg/m3 STEL [VLCT] (restrictive limit) 0.1 mg/m3 TWA [VME] (restrictive limit)
Germany:	0.2 mg/m3 TWA AGW (exposure factor 2) 0.2 mg/m3 TWA MAK (inhalable fraction) 0.4 mg/m3 Peak (inhalable fraction)
Greece:	0.1 ppm STEL; 0.3 mg/m3 STEL 0.1 ppm TWA; 0.3 mg/m3 TWA
Ireland:	0.3 mg/m3 STEL (as NaN3) 0.1 mg/m3 TWA (as NaN3) Potential for cutaneous absorption
Italy:	0.1 mg/m3 TWA
Netherlands:	0.3 mg/m3 STEL 0.1 mg/m3 TWA skin notation
Spain:	0.3 mg/m3 STEL [VLA-EC] 0.1 mg/m3 TWA [VLA-ED] (indicative limit value) skin - potential for cutaneous exposure
Sweden:	0.1 mg/m3 LLV 0.3 mg/m3 STV

2-Methyl-3-isothiazolone (220-239-6) Austria:	0.05 mg/m3 TWA [TMW] skin notation
Germany:	0.2 mg/m3 TWA MAK (mixture in ratio 1:3 with CAS #26172-55-4, inhalable fraction) 0.4 mg/m3 Peak (mixture in ratio 1:3 with CAS #26172-55-4, inhalable

Engineering Measures
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal Protective Equipment: Respiratory
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Personal Protective Equipment: Hands
Use impervious gloves.
Personal Protective Equipment: Eyes
Wear safety glasses with side shields.
Personal Protective Equipment: Skin and Body
Lab coat should be worn to minimize skin contact.

9. Physical/chemical properties

Appearance:	Semi-Clear	**Odor:**	None
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	ND	**Specific Gravity:**	ND
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:	NA		

10. Chemical Stability and reactivity Information

Chemical Stability
This is a stable material.
Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.

Hazardous Decomposition Products

Irritating toxic fumes and gases, oxides of carbon.

11. Toxicological information

Acute Toxicity

Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Glycerin (56-81-5)

Oral LD50 Rat 12600 mg/kg; Dermal LD50 Rat >21900 mg/kg

Polyoxyethylene sorbitan monolaurate (9005-64-5)

Oral LD50 Rat 36700 µL/kg

Sodium azide (26628-22-8)

Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg; Dermal LD50 Rabbit 20 mg/kg

Sodium phosphate dibasic (7558-79-4)

Oral LD50 Rat 17 g/kg

Sodium chloride (7647-14-5)

Inhalation LC50 Rat >42 g/m3 1 h; Oral LD50 Rat 3 g/kg; Dermal LD50 Rabbit >10 g/kg

Dihydrogen potassium phosphate (7778-77-0)

Dermal LD50 Rabbit >4640 mg/kg; Oral LD50 Mouse 1700 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.

Potential Health Effects: Eye Critical Damage/ Stimulativeness

This product is not reported to have any eye irritation effects.

Potential Health Effects: Ingestion

May be harmful if swallowed.

Potential Health Effects: Inhalation

This product is not reported to have any inhalation hazard effects.

Respiratory Organs Sensitization/Skin Sensitization

This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity

This product is not reported to have any mutagenic effects.

Carcinogenicity

A: General Product Information

This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

Sodium azide
(26628-22-8)

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Reproductive Toxicity

This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure

This product is not reported to have any specific target organ toxicity single exposure effects.

Specified Target Organ General Toxicity: Repeated Exposure

This product is not reported to have any specific target organ toxicity repeat exposure effects.

Aspiration Respiratory Organs Hazard

Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information

This product is not reported to have any ecotoxicity effets.

B: Component Analysis- Ecotoxicity – Aquatic Toxicity

Glycerin (56-81-5)

Test & Species	**Conditions**
96 Hr LC50 Oncorhynchus mykiss	51-57 mL/L [static]
24 HR EC50 Daphnia magna	>500 mg/L

Sodium azide (26628-22-8)

Test Species	**Conditions**
96 Hr LC50 Oncorhynchus mykiss	0.8 mg.L
96 Hr LC50 Lepomis macrochirus	0.7 mg.L
96 Hr LC50 Pimephales promelas	5.46 mg/L [flow through]

Sodium chloride (7647-14-5)

Test Species	**Conditions**
96 Hr LC50 Lepomis macrochirus	5560-6080 mg/L [flow through]
96 Hr LC50 Lepomis macrochirus	12946 mg/L [static]
96 Hr LC50 Pimephales promelas	6020-7070 mg/L [static]
96 Hr LC50 Pimephales promelas	7050 mg/L [semi static]

96 Hr LC50 Pimephales promelas	6420-6700 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4747-7824- mg/L [flow-through]
48 Hr EC50 Daphnia magna	1000 mg/L
48 Hr EC50 Daphnia magna	340.7- 469.2 mg/L [Static]

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information
Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):
None
Risk Phrases:
None

16. Other Information

Substance Analysis - Inventory Component/CAS	EC #	EEC	CAN	TSCA
Water 7732-18-5	231-791-2	EINECS	DSL	Yes
Glycerin 56-81-5	200-289-5	EINECS	DSL	Yes
Albumins, blood serum 9048-46-8	232-936-2	EINECS	DSL	Yes
Polyoxyethylene sorbitan monolaurate 9005-64-5	500-018-3	No	DSL	Yes
Sodium azide 26628-22-8	247-852-1	EINECS	DSL	Yes
Sodium phosphate dibasic 7558-79-4	231-448-7	EINECS	DSL	Yes
Sodium chloride 7647-14-5	231-598-3	EINECS	DSL	Yes
Dihydrogen potassium phosphate 7778-77-0	231-913-4	EINECS	DSL	Yes
C.I. Acid green 1 19381-50-1	243-010-2	EINECS	DSL	Yes
2-Methyl-3-isothiazolone 2682-20-4	220-239-6	EINECS	DSL	Yes

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

Available on request.

End of ELISA Sample Diluent

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No:
Synonyms: N/A
Intended Use: Laboratory Use

ELISA Controls and Calibrators

2. Hazard Identification

GHS Classification:
Not classified in accordance to EC No. 1272/2008.
GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statements
None
Precautionary Statements
None

3. Composition/Information on Ingredients

CAS #	Component
Not Available	Human Serum
26628-22-8	Sodium azide
2682-20-4	2-Methyl-3-isothiazolone

4. First Aid Measures

First Aid: Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
First Aid: Skin
For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.
First Aid: Ingestion
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
First Aid: Inhalation
Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

5. Fire Fighting Measures:

General Fire Hazards
See Section 9 for Flammability Properties.
None

Hazardous Combustion Products
Carbon dioxide may emit trace amounts of toxic vapors and fumes.
Extinguishing Media
Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media
None
Fire Fighting Equipment/Instructions
Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization
None
Materials and Methods for Clean-Up
Attempt to reclaim the free product, if this is possible.
Emergency Measures
Isolate area. Keep unnecessary personnel away.
Personal Precautions and Protective Equipment
None necessary.
Environmental Precautions
None
Prevention of Secondary Hazards
None

7. Handling and storage:

Handling Procedures
Wash thoroughly after handling.
Storage Procedures
Maintain containers in a cool, well-ventilated area which is protected from light. Containers should remain sealed while in storage.
Incompatibilities
Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.

8. Exposure Controls / Personal Protection:

Component Exposure Limits

Sodium azide (247-852-1) ACGIH:	0.29 mg/m3 Ceiling (as NaN3); 0.11 ppm Ceiling (vapor, as Hydrazoic acid)
Austria:	0.3 mg/m3 STEL [KZW] (4 X 15 min) 0.1 mg/m3 TWA [TMW] skin notation
Belgium:	Skin
Denmark:	0.1 mg/m3 TWA Potential for cutaneous absorption

Finland:	0.3 mg/m3 STEL 0.1 mg/m3 TWA Potential for cutaneous absorption
France:	0.3 mg/m3 STEL [VLCT] (restrictive limit) 0.1 mg/m3 TWA [VME] (restrictive limit)
Germany:	0.2 mg/m3 TWA AGW (exposure factor 2) 0.2 mg/m3 TWA MAK (inhalable fraction) 0.4 mg/m3 Peak (inhalable fraction)
Greece:	0.1 ppm STEL; 0.3 mg/m3 STEL 0.1 ppm TWA; 0.3 mg/m3 TWA
Ireland:	0.3 mg/m3 STEL (as NaN3) 0.1 mg/m3 TWA (as NaN3) Potential for cutaneous absorption
Italy:	0.1 mg/m3 TWA
Netherlands:	0.3 mg/m3 STEL 0.1 mg/m3 TWA skin notation
Spain:	0.3 mg/m3 STEL [VLA-EC] 0.1 mg/m3 TWA [VLA-ED] (indicative limit value) skin - potential for cutaneous exposure
Sweden:	0.1 mg/m3 LLV 0.3 mg/m3 STV
2-Methyl-3-isothiazolone (220-239-6) Austria:	0.05 mg/m3 TWA [TMW] skin notation
Germany:	0.2 mg/m3 TWA MAK (mixture in ratio 1:3 with CAS #26172-55-4, inhalable fraction) 0.4 mg/m3 Peak (mixture in ratio 1:3 with CAS #26172-55-4, inhalable Fraction)

Engineering Measures
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal Protective Equipment: Respiratory
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Personal Protective Equipment: Hands
Use impervious gloves.
Personal Protective Equipment: Eyes
Wear safety glasses with side shields.
Personal Protective Equipment: Skin and Body
Lab coat should be worn to minimize skin contact.

9. Physical/chemical properties

Appearance:	Semi-Clear	**Odor:**	None
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	ND	**Specific Gravity:**	ND
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:	NA		

10. Chemical Stability and reactivity Information

Chemical Stability
This is a stable material.
Hazardous Reaction Potential
Will not occur.
Conditions to Avoid
None
Incompatible Products
Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.
Hazardous Decomposition Products
Irritating toxic fumes and gases, oxides of carbon.

11. Toxicological information

Acute Toxicity
Component Analysis - LD50/LC50

Sodium azide (26628-22-8)
Oral LD50 Rat 27 mg/kg; Dermal LD50 Rat 50 mg/kg; Dermal LD50 Rabbit 20 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness
This product is not reported to have any skin irritation effects.
Potential Health Effects: Eye Critical Damage/ Stimulativeness
This product is not reported to have any eye irritation effects.
Potential Health Effects: Ingestion
May be harmful if swallowed.
Potential Health Effects: Inhalation
This product is not reported to have any inhalation hazard effects.
Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.
Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.
Carcinogenicity
A: General Product Information
This product is not reported to have any carcinogenic effects.
B: Component Carcinogenicity
Sodium azide
(26628-22-8)

ACGIH:	A4 - Not Classifiable as a Human Carcinogen

Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.
Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any specific target organ toxicity single exposure effects.
Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any specific target organ toxicity repeat exposure effects.
Aspiration Respiratory Organs Hazard
Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effets.

B: Component Analysis- Ecotoxicity – Aquatic Toxicity
Sodium azide (26628-22-8)
Test & Species **Conditions**

96 Hr LC50 Oncorhynchus mykiss 0.8 mg/L
96 Hr LC50 Lepomis macrochirus 0.7 mg/L
96 Hr LC50 Pimephales promelas 5.46 mg/L [flow- through]

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information
Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):
None
Risk Phrases:
None
Substance Analysis - Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Sodium azide 26628-22-8	247-852-1	EINECS	DSL	Yes
2-Methyl-3-isothiazolone 2682-20-4	220-239-6	EINECS	DSL	Yes

16. Other Information

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

Available on request.

End of ELISA Controls and Calibrators

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No:
Synonyms: N/A
Intended Use: Laboratory Use

ELISA Wash Buffer

2. Hazard Identification

GHS Classification:
Not classified in accordance to EC No. 1272/2008.
GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statements
None
Precautionary Statements
None

3. Composition/Information on Ingredients

CAS #	Component
7732-18-5	Water
9005-64-5	Polyoxyethylene sorbitan monolaurate
7647-14-5	Sodium chloride
7778-77-0	Dihydrogen potassium phosphate
7558-79-4	Sodium phosphate dibasic
314-13-6	Direct blue 53
2682-20-4	2-Methyl-3-isothiazolone

4. First Aid Measures

First Aid: Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
First Aid: Skin
For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.
First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
First Aid: Inhalation
Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

5. Fire Fighting Measures:

General Fire Hazards
See Section 9 for Flammability Properties.
None
Hazardous Combustion Products
Carbon dioxide may emit trace amounts of toxic vapors and fumes.
Extinguishing Media
Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media
None
Fire Fighting Equipment/Instructions
Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization
None
Materials and Methods for Clean-Up
Attempt to reclaim the free product, if this is possible.
Emergency Measures
Isolate area. Keep unnecessary personnel away.
Personal Precautions and Protective Equipment
None necessary.
Environmental Precautions
None
Prevention of Secondary Hazards
None

7. Handling and storage:

Handling Procedures
Wash thoroughly after handling.
Storage Procedures
Maintain containers in a cool, well-ventilated area which is protected from light. Containers should remain sealed while in storage.
Incompatibilities
Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.

8. Exposure Controls / Personal Protection:

Component Exposure Limits

2-Methyl-3-isothiazolone (220-239-6) Austria:	0.05 mg/m3 TWA [TMW] skin notation
Germany:	0.2 mg/m3 TWA MAK (mixture in ratio 1:3 with CAS #26172-55-4, inhalable fraction)

	0.4 mg/m3 Peak (mixture in ratio 1:3 with CAS #26172-55-4, inhalable Fraction)

Engineering Measures
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal Protective Equipment: Respiratory
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Personal Protective Equipment: Hands
Use impervious gloves.
Personal Protective Equipment: Eyes
Wear safety glasses with side shields.
Personal Protective Equipment: Skin and Body
Lab coat should be worn to minimize skin contact.

9. Physical/chemical properties

Appearance:	Semi-Clear	**Odor:**	None
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	ND	**Specific Gravity:**	ND
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:	NA		

10. Chemical Stability and reactivity Information

Chemical Stability
This is a stable material.
Hazardous Reaction Potential
Will not occur.
Conditions to Avoid
None
Incompatible Products
Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.
Hazardous Decomposition Products
Irritating toxic fumes and gases, oxides of carbon.

11. Toxicological information

Acute Toxicity
Component Analysis - LD50/LC50
Water (7732-18-5)
Oral LD50 Rat >90 mL/kg
Polyoxyethylene sorbitan monolaurate (9005-64-5)
Oral LD50 Rat 36700 µL/kg
Sodium phosphate dibasic (7558-79-4)
Oral LD50 Rat 17 g/kg
Dihydrogen potassium phosphate (7778-77-0)
Dermal LD50 Rabbit >4640 mg/kg; Oral LD50 Mouse 1700 mg/kg
Sodium chloride (7647-14-5)
Inhalation LC50 Rat >42 g/m3 1 h; Oral LD50 Rat 3 g/kg; Dermal LD50 Rabbit >10 g/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness
This product is not reported to have any skin irritation effects.
Potential Health Effects: Eye Critical Damage/ Stimulativeness
This product is not reported to have any eye irritation effects.
Potential Health Effects: Ingestion
May be harmful if swallowed.
Potential Health Effects: Inhalation
This product is not reported to have any inhalation hazard effects.
Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.
Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.
Carcinogenicity
A: General Product Information
This product is not reported to have any carcinogenic effects.
B: Component Carcinogenicity
Direct Blue 53 (314-13-6)
IARC: Supplement 7 [1987]; Monograph 8
[1975] (Group 3 (not classifiable)
Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.
Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any specific target organ toxicity single exposure effects.
Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any specific target organ toxicity repeat exposure effects.
Aspiration Respiratory Organs Hazard
Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effets.

B: Component Analysis- Ecotoxicity – Aquatic Toxicity
Sodium chloride (7647-14-5)

Test & Species	Conditions
96 Hr LC50 Lepomis macrochirus	5560-6080 mg/L [flow-through]
96 Hr LC50 Lepomis macrochirus	12946 mg/L [static]
96 Hr LC50 Pimephales promelas	6020-7070 mg/L [static]
96 Hr LC50 Pimephales promelas	7050 mg/L [semi static]
96 Hr LC50 Pimephales promelas	6420-6700 mg/L [static]
96 Hr LC50 Oncorhynchus mykiss	4747-7824 mg/L [flow-through]
48 Hr EC50 Daphnia magna	1000 mg/L
48 Hr EC50 Daphnia magna	340.7- 469.2 mg/L [static]

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information
Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):
None
Risk Phrases:
None

Substance Analysis - Inventory

Component/ CAS	EC #	EEC	CAN	TSCA
Water 7732-18-5	231-791-2	EINECS	DSL	Yes
Polyoxyethylene sorbitan monolaurate 9005-64-5	500-018-3	No	DSL	Yes
Sodium phosphate dibasic 7558-79-4	231-448-7	EINECS	DSL	Yes
Dihydrogen potassium phosphate 7778-77-0	231-913-4	EINECS	DSL	Yes
Sodium chloride 7647-14-5	231-598-3	EINECS	DSL	Yes
Direct blue 53 314-13-6	206-242-5	EINECS	DSL	Yes
2-Methyl-3-isothiazolone 2682-20-4	220-239-6	EINECS	DSL	Yes

16. Other Information

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References

Available on request.

End Of ELISA Wash Buffer

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No:
Synonyms: N/A
Intended Use: Laboratory Use

ELISA Conjugate

2. Hazard Identification

GHS Classification:
Not classified in accordance to EC No. 1272/2008.
GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statements
None
Precautionary Statements
None

3. Composition/Information on Ingredients

CAS #	Component
7732-18-5	Water
56-81-5	Glycerin
Not Available	Goat Serum
9048-46-8	Albumins, blood serum
1185-53-1	1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride
9003-39-8	Polyvinyl pyrrolidone
9000-01-5	Gum arabic
2682-20-4	2-Methyl-3-isothiazolone
58-15-1	1-Aminopyrine
9005-64-5	Polyoxyethylene sorbitan monolaurate

4. First Aid Measures

First Aid: Eyes

Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.

First Aid: Skin

For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.

First Aid: Ingestion

If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

First Aid: Inhalation

Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

5. Fire Fighting Measures:

General Fire Hazards

See Section 9 for Flammability Properties.

None

Hazardous Combustion Products

Carbon dioxide may emit trace amounts of toxic vapors and fumes.

Extinguishing Media

Use appropriate extinguishing media for surrounding fire.

Unsuitable Extinguishing Media

None

Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization

None

Materials and Methods for Clean-Up

Attempt to reclaim the free product, if this is possible.

Emergency Measures

Isolate area. Keep unnecessary personnel away.

Personal Precautions and Protective Equipment

None necessary.

Environmental Precautions

None

Prevention of Secondary Hazards

None

7. Handling and storage:

Handling Procedures

Wash thoroughly after handling.

Storage Procedures

Maintain containers in a cool, well-ventilated area which is protected from light. Containers should remain sealed while in storage.

Incompatibilities

Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.

8. Exposure Controls / Personal Protection:

Glycerin (200-289-5) ACGIH:	10 mg/m3 TWA (mist)
Belgium:	10 mg/m3 TWA (mist)
Finland:	20 mg/m3 TWA

France:	10 mg/m3 TWA [VME] (aerosol)
Germany:	50 mg/m3 TWA MAK (inhalable fraction) 100 mg/m3 Peak (inhalable fraction)
Greece:	10 mg/m3 TWA
Ireland:	10 mg/m3 TWA (mist)
Portugal:	10 mg/m3 TWA [VLE-MP] (mist)
Spain:	10 mg/m3 TWA [VLA-ED] (mist)
2-Methyl-3-isothiazolone (220-239-6) Austria:	0.05 mg/m3 TWA [TMW] skin notation
Germany:	0.2 mg/m3 TWA MAK (mixture in ratio 1:3 with CAS #26172-55-4, inhalable fraction) 0.4 mg/m3 Peak (mixture in ratio 1:3 with CAS #26172-55-4, inhalable fraction)

Engineering Measures
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal Protective Equipment: Respiratory
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Personal Protective Equipment: Hands
Use impervious gloves.
Personal Protective Equipment: Eyes
Wear safety glasses with side shields.
Personal Protective Equipment: Skin and Body
Lab coat should be worn to minimize skin contact.

9. Physical/chemical properties

Appearance:	Semi-Clear	**Odor:**	None
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	ND	**Specific Gravity:**	ND
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:	NA		

10. Chemical Stability and reactivity Information

Chemical Stability
This is a stable material.
Hazardous Reaction Potential
Will not occur.

Conditions to Avoid
None
Incompatible Products
Avoid contact with strong oxidizing agents, metals, strong acids, and strong bases.

Hazardous Decomposition Products
Irritating toxic fumes and gases, oxides of carbon.

11. Toxicological information

Acute Toxicity
Component Analysis - LD50/LC50
Water (7732-18-5)
Oral LD50 Rat >90 mL/kg
Glycerin (56-81-5)
Oral LD50 Rat 12600 mg/kg; Dermal LD50 Rat >21900 mg/kg
Polyvinyl pyrrolidone (9003-39-8)
Oral LD50 Rat 100 g/kg
1-Aminopyrine (58-15-1)
Oral LD50 Rat 285 mg/kg
Gum arabic (9000-01-5)
Oral LD50 Rat >16 g/kg
Polyoxyethylene sorbitan monolaurate (9005-64-5)
Oral LD50 Rat 36700 µL/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness
This product is not reported to have any skin irritation effects.
Potential Health Effects: Eye Critical Damage/ Stimulativeness
This product is not reported to have any eye irritation effects.
Potential Health Effects: Ingestion
May be harmful if swallowed.
Potential Health Effects: Inhalation
This product is not reported to have any inhalation hazard effects.
Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.
Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.
Carcinogenicity

A: General Product Information
This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity
Polyvinyl pyrrolidone (9003-39-8)
IARC: Monograph 71 [1999]; Supplement 7 [1987];
Monograph 19 [1979] (Group 3 (not classifiable))

Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any specific target organ toxicity single exposure effects.
Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any specific target organ toxicity repeat exposure effects.
Aspiration Respiratory Organs Hazard
Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effets.

B: Component Analysis- Ecotoxicity – Aquatic Toxicity
Glycerin (56-81-5)

Test & Species	**Conditions**
96 Hr LC50 Oncorhynchus mykiss	51-57 mL/L [static]
24 Hr EC50 Daphnia magna	> 500 mg/L

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations

Waste Disposal Instructions
See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information
Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):

None
Risk Phrases:
None

Substance Analysis - Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Water 7732-18-5	231-791-2	EINECS	DSL	Yes
Glycerin 56-81-5	200-289-5	EINECS	DSL	Yes
Albumins, blood serum 9048-46-8	232-936-2	EINECS	DSL	Yes
1,3-Propanediol, 2-amino-2-(hydroxymethyl)-, hydrochloride 1185-53-1	214-684-5	EINECS	DSL	Yes
Polyvinyl pyrrolidone 9003-39-8	-	No	DSL	Yes
1-Aminopyrine 58-15-1	200-365-8	EINECS	NDSL	Yes
2-Methyl-3-isothiazolone 2682-20-4	220-239-6	EINECS	DSL	Yes
Gum arabic 9000-01-5	232-519-5	EINECS	DSL	Yes
Polyoxyethylene sorbitan monolaurate 9005-64-5	500-018-3	No	DSL	Yes

16. Other Information

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References
Available on request.

End of ELISA Conjugate

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No:
Synonyms: N/A
Intended Use: Laboratory Use

ELISA TMB Substrate

2. Hazard Identification

GHS Classification:
Not classified in accordance to EC No. 1272/2008.
GHS LABEL ELEMENTS
Symbol(s)
None
Signal Word
None
Hazard Statements
None
Precautionary Statements
None

3. Composition/Information on Ingredients

CAS #	Component
7732-18-5	Water
54827-17-7	[1,1'-Biphenyl]-4,4'-diamine, 3,3',5,5'-tetramethyl-

4. First Aid Measures

First Aid: Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. If irritation persists get medical attention.
First Aid: Skin
For skin contact, wash immediately with soap and water. If irritation persists, get medical attention.
First Aid: Ingestion
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
First Aid: Inhalation
Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

5. Fire Fighting Measures:

General Fire Hazards
See Section 9 for Flammability Properties.
None
Hazardous Combustion Products
Carbon dioxide may emit trace amounts of toxic vapors and fumes.

Extinguishing Media
Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media
None
Fire Fighting Equipment/Instructions
Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization
None
Materials and Methods for Clean-Up
Attempt to reclaim the free product, if this is possible.
Emergency Measures
Isolate area. Keep unnecessary personnel away.
Personal Precautions and Protective Equipment
None necessary.
Environmental Precautions
None
Prevention of Secondary Hazards
None

7. Handling and storage:

Handling Procedures
Wash thoroughly after handling.
Storage Procedures
Maintain containers in a cool, well-ventilated area which is protected from light. Containers should remain sealed while in storage.
Incompatibilities
Avoid contact with strong oxidizing agents and metals

8. Exposure Controls / Personal Protection:

Component Exposure Limits
The EU, ACGIH, Austria, Belgium, Denmark, Finland, France, Germany, Greece, Ireland, Italy, Netherlands, Portugal, Spain, Sweden, and United Kingdom have not developed exposure limits for any of the substances in this preparation.

Engineering Measures
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal Protective Equipment: Respiratory

If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.

Personal Protective Equipment: Hands

Use impervious gloves.

Personal Protective Equipment: Eyes

Wear safety glasses with side shields.

Personal Protective Equipment: Skin and Body

Lab coat should be worn to minimize skin contact.

9. Physical/chemical properties

Appearance:	Clear to light yellow	**Odor:**	None
Physical State:	Liquid	**pH:**	3.5-3.9
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	Aqueous	**Specific Gravity:**	1.01
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:		NA	

10. Chemical Stability and reactivity Information

Chemical Stability

This is a stable material.

Hazardous Reaction Potential

Will not occur.

Conditions to Avoid

None

Incompatible Products

Avoid contact with strong oxidizing agents and metals.

Hazardous Decomposition Products

Irritating toxic fumes and gases, oxides of carbon and nitrogen.

11. Toxicological information

Acute Toxicity

Component Analysis - LD50/LC50

Water (7732-18-5)

Oral LD50 Rat >90 mL/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness

This product is not reported to have any skin irritation effects.
Potential Health Effects: Eye Critical Damage/ Stimulativeness
This product is not reported to have any eye irritation effects.
Potential Health Effects: Ingestion
May be harmful if swallowed.
Potential Health Effects: Inhalation
This product is not reported to have any inhalation hazard effects.
Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.

Carcinogenicity
A: General Product Information
This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity
None of this product's components are listed by ACGIH, IARC, OSHA, NIOSH, or NTP

Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.
Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any specific target organ toxicity single exposure effects.
Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any specific target organ toxicity repeat exposure effects.
Aspiration Respiratory Organs Hazard
Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effets.

B: Component Analysis- Ecotoxicity – Aquatic Toxicity
No ecotoxicity data are available for this product's components.

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations

Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information
Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):
None
Risk Phrases:
None

Substance Analysis - Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Water 7732-18-5	231-791-2	EINECS	DSL	Yes
[1,1'-Biphenyl]-4,4'-diamine, 3,3',5,5'-tetramethyl- 54827-17-7	259-364-6	EINECS	DSL	Yes

16. Other Information

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA = National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of

Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References
Available on request.

End of ELISA TMB Substrate

1. IDENTIFICATION OF THE PREPARATION AND COMPANY NAME.

Product Name: **Ana Screen ELISA**
Catalog No:
Synonyms: N/A
Intended Use: Laboratory Use

ELISA Stop Solution

2. Hazard Identification

GHS Classification:
Acute Toxicity Inhalation - Category 4
Skin Corrosion/Irritation - Category 1A

GHS LABEL ELEMENTS
Symbol(s)

Signal Word
Danger
Hazard Statements
Harmful if inhaled.
Causes severe skin burns and eye damage.
Precautionary Statements
Prevention
Do not breathe mist/vapours/spray.
Use in a well-ventilated area.
Wash thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.

Response
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or doctor/physician.

Storage
Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

CAS #	Component
7732-18-5	Water
7647-01-0	Hydrogen chloride
7664-93-9	Sulfuric acid

3. Composition/Information on Ingredients

4. First Aid Measures

First Aid: Eyes
Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention.
First Aid: Skin
For skin contact flush with large amounts of water. Seek medical attention. Wash contaminated clothing before reuse.
First Aid: Ingestion
If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.
First Aid: Inhalation
Move person to non-contaminated air. If the affected person is not breathing, apply artificial respiration.

5. Fire Fighting Measures:

General Fire Hazards
See Section 9 for Flammability Properties.
None
Hazardous Combustion Products
Carbon dioxide may emit trace amounts of toxic vapors and fumes.

Extinguishing Media
Use appropriate extinguishing media for surrounding fire.
Unsuitable Extinguishing Media
None
Fire Fighting Equipment/Instructions

Firefighters should wear full protective gear.

6. Accidental Release measures:

Recovery and Neutralization
None
Materials and Methods for Clean-Up
Attempt to reclaim the free product, if this is possible.
Emergency Measures
Isolate area. Keep unnecessary personnel away.
Personal Precautions and Protective Equipment
Wear appropriate personal protective equipment.
Environmental Precautions
None
Prevention of Secondary Hazards
None

7. Handling and storage:

Handling Procedures
Wash thoroughly after handling.
Storage Procedures
Maintain containers in a cool, well-ventilated area which is protected from light. Containers should remain sealed while in storage.
Incompatibilities
Avoid contact with strong oxidizing agents and metals

8. Exposure Controls / Personal Protection:

Component Exposure Limits

Hydrogen chloride (231-595-7) ACGIH:	2 ppm Ceiling
Austria:	10 ppm STEL [KZW] (8 X 5 min); 15 mg/m3 STEL [KZW] (8 X 5 min) 5 ppm TWA [TMW]; 8 mg/m3 TWA [TMW]
Belgium:	10 ppm STEL; 15 mg/m3 STEL 5 ppm TWA; 8 mg/m3 TWA
Denmark:	5 ppm Ceiling; 8 mg/m3 Ceiling
Finland:	5 ppm STEL (including solution); 7.6 mg/m3 STEL (including solution)
France:	5 ppm STEL [VLCT]; 7.6 mg/m3 STEL [VLCT]
Germany:	2 ppm TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, exposure factor 2); 3 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when

	AGW and BGW values are observed, exposure factor 2) 2 ppm TWA MAK; 3.0 mg/m3 TWA MAK 4 ppm Peak; 6 mg/m3 Peak
Greece:	5 ppm STEL; 7 mg/m3 STEL 5 ppm TWA; 7 mg/m3 TWA
Ireland:	10 ppm STEL; 15 mg/m3 STEL 5 ppm TWA; 8 mg/m3 TWA
Italy:	5 ppm TWA; 8 mg/m3 TWA
Netherlands:	15 mg/m3 STEL 8 mg/m3 TWA
Spain:	10 ppm STEL [VLA-EC]; 15 mg/m3 STEL [VLA-EC] 5 ppm TWA [VLA-ED] (indicative limit value); 7.6 mg/m3 TWA [VLA-ED] (indicative limit value)
Sweden:	5 ppm CLV; 8 mg/m3 CLV

Sulfuric acid (231-639-5) ACGIH:	0.2 mg/m3 TWA (thoracic fraction)
Austria:	0.2 mg/m3 STEL [KZW] (inhalable fraction) 0.1 mg/m3 TWA [TMW] (inhalable fraction)
Belgium:	3 mg/m3 STEL 1 mg/m3 TWA
Denmark:	0.05 mg/m3 TWA (thoracic fraction, mist)
Finland:	0.1 mg/m3 STEL 0.05 mg/m3 TWA
France:	3 mg/m3 STEL [VLCT] 0.05 mg/m3 TWA [VME]
Germany:	0.1 mg/m3 TWA AGW (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed, inhalable fraction, exposure factor 1) 0.1 mg/m3 TWA MAK (inhalable fraction) 0.1 mg/m3 Peak (inhalable fraction)
Greece:	0.05 mg/m3 TWA (mist)
Ireland:	1 mg/m3 TWA
Netherlands:	0.05 mg/m3 TWA
Portugal:	0.2 mg/m3 TWA [VLE-MP] (thoracic fraction)

Spain:	0.05 mg/m3 TWA [VLA-ED] (indicative limit value; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound; limitations and interferences can arise from other Sulfur compounds, mist)
Sweden:	0.1 mg/m3 LLV 0.2 mg/m3 STV

Engineering Measures
Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits.
Personal Protective Equipment: Respiratory
If airborne concentrations are above the applicable exposure limits, use NIOSH approved respiratory protection.
Personal Protective Equipment: Hands
Use impervious gloves.
Personal Protective Equipment: Eyes
Wear safety glasses with side shields.
Personal Protective Equipment: Skin and Body
Lab coat should be worn to minimize skin contact.

9. Physical/chemical properties

Appearance:	Semi-Clear	**Odor:**	None
Physical State:	Liquid	**pH:**	ND
Vapor Pressure:	ND	**Vapor Density:**	ND
Boiling Point:	ND	**Melting Point:**	NA
Solubility (H2O):	ND	**Specific Gravity:**	ND
Evaporation Rate:	ND	**VOC:**	ND
Octanol/H2O Coeff.:	ND	**Flash Point:**	NA
Flash Point Method:	NA	**Upper Flammability Limit (UFL):**	NA
Lower Flammability Limit (LFL):	NA	**Burning Rate:**	NA
Auto Ignition:	NA		

10. Chemical Stability and reactivity Information

Chemical Stability
This is a stable material.
Hazardous Reaction Potential
Will not occur.

Conditions to Avoid
None
Incompatible Products
Avoid contact with strong oxidizing agents and metals.
Hazardous Decomposition Products
Irritating toxic fumes and gases, oxides of carbon.

11. Toxicological information

Acute Toxicity
Component Analysis - LD50/LC50
Water (7732-18-5)
Oral LD50 Rat >90 mL/kg

Hydrogen chloride (7647-01-0)
Inhalation LC50 Rat 3124 ppm 1 h; Oral LD50 Rat 700 mg/kg; Dermal LD50 Rabbit >5010 mg/kg

Sulfuric acid (7664-93-9)
Inhalation LC50 Mouse 320 mg/m3 2 h; Inhalation LC50 Rat 510 mg/m3 2 h; Inhalation LC50 Rat 347 ppm 1 h; Oral LD50 Rat 2140 mg/kg

Potential Health Effects: Skin Corrosion Property/Stimulativeness
Causes severe skin burns.
Potential Health Effects: Eye Critical Damage/ Stimulativeness
Causes eye damage
Potential Health Effects: Ingestion
May be harmful if swallowed.
Potential Health Effects: Inhalation
Harmful if inhaled
Respiratory Organs Sensitization/Skin Sensitization
This product is not reported to have any sensitization effects.

Generative Cell Mutagenicity
This product is not reported to have any mutagenic effects.

Carcinogenicity
A: General Product Information
This product is not reported to have any carcinogenic effects.

B: Component Carcinogenicity

Hydrogen chloride (7647-01-0)	ACGIH:	A4 - Not Classifiable as a Human Carcinogen
	IARC:	Monograph 54 [1992] (Group 3 (not classifiable))

Sulfuric acid (7664-93-9) ACGIH: A2 - Suspected Human Carcinogen (contained in strong inorganic acid mists)
IARC: Monograph 54 [1992] (Occupational exposure to mists and vapours from sulfuric acid and other strong inorganic acids) (Group 1 (carcinogenic to humans))

Reproductive Toxicity
This product is not reported to have any reproductive toxicity effects.

Specified Target Organ General Toxicity: Single Exposure
This product is not reported to have any specific target organ toxicity single exposure effects.
Specified Target Organ General Toxicity: Repeated Exposure
This product is not reported to have any specific target organ toxicity repeat exposure effects.
Aspiration Respiratory Organs Hazard
Not an aspiration hazard.

12. Ecological Information

Ecotoxicity

A: General Product Information
This product is not reported to have any ecotoxicity effets.

B: Component Analysis- Ecotoxicity – Aquatic Toxicity
Hydrogen chloride (7647-01-0)

Test & Species	Conditions
96 Hr LC50 Gambusia affinis	282 mg/L [static]

Sulfuric acid (7664-93-9)

Test & Species	Conditions
96 Hr LC50 Brachydanio rerio	>500 mg/L [static]
24 Hr EC50 Daphnia magna	29 mg/L

Persistence/Degradability
No information available for the product.
Bioaccumulation
No information available for the product.
Mobility in Soil
No information available for the product.

13. Disposal Considerations
Waste Disposal Instructions

See Section 7 for Handling Procedures. See Section 8 for Personal Protective Equipment recommendations.
Disposal of Contaminated Containers or Packaging
Dispose of contents/container in accordance with local/regional/national/international regulations.

14. Transportation information

IATA Information
Shipping Name: Not Regulated
ICAO Information
Shipping Name: Not Regulated
IMDG Information
Shipping Name: Not Regulated

15. Regulatory Information

Regulatory Information

EU MARKING AND LABELLING:
Symbol(s):
Xi
Risk Phrases: R36/37/38 Irritating to eyes, respiratory system and skin. Irritating to eyes, respiratory system and skin.

Substance Analysis - Inventory

Component/CAS	EC #	EEC	CAN	TSCA
Water 7732-18-5	231-791-2	EINECS	DSL	Yes
Hydrogen chloride 7647-01-0	231-595-7	EINECS	DSL	Yes
Sulfuric acid 7664-93-9	231-639-5	EINECS	DSL	Yes

16. Other Information

Key/Legend

ACGIH = American Conference of Governmental Industrial Hygienists; ADG = Australian Code for the Transport of Dangerous Goods by Road and Rail; ADR/RID = European Agreement of Dangerous Goods by Road/Rail; AS = Standards Australia; DFG = Deutsche Forschungsgemeinschaft; DOT = Department of Transportation; DSL = Domestic Substances List; EEC = European Economic Community; EINECS = European Inventory of Existing Commercial Chemical Substances; ELINCS = European List of Notified Chemical Substances; EU = European Union; HMIS = Hazardous Materials Identification System; IARC = International Agency for Research on Cancer; IMO = International Maritime Organization; IATA = International Air Transport Association; MAK = Maximum Concentration Value in the Workplace; NDSL = Non-Domestic Substances List; NFPA =

National Fire Protection Association; NOHSC = National Occupational Health & Safety Commission; NTP = National Toxicology Program; STEL = Short-term Exposure Limit; TDG = Transportation of Dangerous Goods; TLV = Threshold Limit Value; TSCA = Toxic Substances Control Act; TWA = Time Weighted Average

Literature References
Available on request.

End of ELISA Stop Solution

Quality Control
Diagnostic Automation/Cortez Diagnostics INC.
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