

SECTION 1

Identification of the Product:
Pancreatic Polypeptide ELISA**Use of the Product:**

For Research Use Only.

The ELISA kit is used as an analytical tool for the quantitative/qualitative determination of antibody / antigen biomarker in samples.

Company / Undertaking:

Identification:

ALPCO, 26-G Keewaydin Drive, Salem, NH 03079

Contact Email: ts@alpc.com

Emergency Telephone: 911 in the United States. Dial relevant local emergency number outside of the United States.

Kit Components:

1. Coated Microtiter Plate
2. Standard
3. Biotinylated Antibody/Antigen
4. Streptavidin:HRP Conjugate
5. Standard Diluent
6. Biotin Antibody/Antigen Dilution Buffer
7. HRP Conjugate Dilution Buffer
8. Wash Buffer
9. TMB Substrate
10. Stop Solution

- Components 5-7 containing 0.05% Proclin300 is a mixture according to REACH. Safety Data Sheet for Proclin300 according to REACH is attached.
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- Component 9 containing Stabilized Chromogen
- Component 10 containing Phosphoric Acid is a hazardous mixture according to CLP Regulation (EC) as amended. Safety Data Sheet for Phosphoric Acid according to actual Regulations (EC/EU) is attached.
- The other (Component 2,3,4) do not contain any hazardous mixture according to CLP Regulation (EC) as amended.

SECTION 2

HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture**

Classification according to Regulation 1272/2008/EC:

Mixtures are considered hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

Pictogram:



MATERIAL SAFETY DATA SHEET

Signal word:	Warning
Hazard statements:	H302+H332,H314, H317,H410
Precautionary statements:	P273, P280, P301 + P312, P303 + P361 + P353, P304 + P340 + P310, P305 + P351 + P338

For full text of H- and P-phrases see section 16.

2.3 Supplemental hazards statements **None**

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Description: Standard Diluent as a mixture containing 0.05% Proclin300 and as preservative.

Ingredient	Conc. %	CAS-Nr.
Proclin300	0.05%	96118-96-6

Classification: Eye Dam. 1; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; H318, H301, H310, H330, H314, H317, H400, H410 Concentration limits: $\geq 0,6$ %: Skin Corr. 1C, H314; $0,06 - < 0,6$ %: Skin Irrit. 2, H315; $0,06 - < 0,6$ %: Eye Irrit. 2, H319; $\geq 0,0015$ %: Skin Sens. 1A, H317; $\geq 0,0015$ %: Skin Sens. 1A, H317; $\geq 0,6$ %: Eye Dam. 1, H318; M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100

Description: Biotin Antibody/Antigen Dilution Buffer as a mixture containing 0.05% Proclin300 and as preservative.

Ingredient	Conc. %	CAS-Nr.
Proclin300	0.05%	96118-96-6

Classification: Eye Dam. 1; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; H318, H301, H310, H330, H314, H317, H400, H410 Concentration limits: $\geq 0,6$ %: Skin Corr. 1C, H314; $0,06 - < 0,6$ %: Skin Irrit. 2, H315; $0,06 - < 0,6$ %: Eye Irrit. 2, H319; $\geq 0,0015$ %: Skin Sens. 1A, H317; $\geq 0,0015$ %: Skin Sens. 1A, H317; $\geq 0,6$ %: Eye Dam. 1, H318; M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100

Description: HRP Conjugate Dilution Buffer as a mixture containing 0.05% Proclin300 and as preservative.

Ingredient	Conc. %	CAS-Nr.
Proclin300	0.05%	96118-96-6

Classification: Eye Dam. 1; Acute Tox. 3; Acute Tox. 2; Skin Corr. 1C; Skin Sens. 1A; Aquatic Acute 1; Aquatic Chronic 1; H318, H301, H310, H330, H314, H317, H400, H410 Concentration limits: $\geq 0,6$ %: Skin Corr. 1C, H314; $0,06 - < 0,6$ %: Skin Irrit. 2, H315; $0,06 - < 0,6$ %: Eye Irrit. 2, H319; $\geq 0,0015$ %: Skin Sens. 1A, H317; $\geq 0,0015$ %: Skin Sens. 1A, H317; $\geq 0,6$ %: Eye Dam. 1, H318; M-Factor - Aquatic Acute: 100 - Aquatic Chronic: 100

MATERIAL SAFETY DATA SHEET

Description: Stop Solution as a mixture containing Phosphoric Acid

Ingredient	Conc. %	CAS-Nr.	Index-Nr.
Phosphoric Acid	0.73M	7664-38-2	028-032-00-0

Classification: Carc. 1A, H350i STOT RE 1, H372** Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

For full text of H-phrases see section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures:

If in eyes: Rinse thoroughly with water for at least 15 minutes and immediately consult a physician.

If on skin (or hair): Immediately take off contaminated clothing or shoes. Wash with plenty of soap and water. Consult a physician.

If inhaled: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

If swallowed: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Immediately consult a physician.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing agents

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special precautions for fire-fighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Person-related safety precautions

Use appropriate personal protective equipment to prevent contamination of skin, eyes and personal clothing. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 Measures for environmental protection

Keep away from drains.

6.3 Measures for containment and cleaning

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use normal measures for preventive fire protection.

MATERIAL SAFETY DATA SHEET

7.2 Conditions for safe storage:

Store in a cool and dry place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Contains no substances with occupational exposure limit values.

8.2 Individual protection measures

Wash hands thoroughly after handling chemical products and before eating, smoking or using the toilet. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing.

Eye/face protection: Wear approved safety goggles.

Skin/hand protection: Handle with protective gloves, plastic or rubber. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Wear suitable protective clothing as protection against splashing or contamination.

Other skin protection: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved.

Respiratory protection: In case of inadequate ventilation, use a suitable respirator. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Clear Liquid
Odor:	Not available
Odor Threshold:	Not available
pH:	Not available
Melting Point / Freezing Point:	Not available
Boiling Point / Boiling Range:	100°C

Flash Point:	No information available
Evaporation Rate:	No information available
Flammability (solid, gas):	No information available
Upper/Lower Flammability or Explosive Limit:	Not available
Vapor Pressure:	Not available
Relative Density:	1.06 g/cm ³
Solubility in/Miscibility with Water:	Soluble
Partition Coefficient: octanol/water:	Not available
Auto Igniting:	Not available
Decomposition Temperature:	Not available
Viscosity:	Not available

MATERIAL SAFETY DATA SHEET

SECTION 10 STABILITY AND REACTIVITY

10.1 Chemical Stability

Stable under recommended storage conditions.

10.2 Conditions to avoid

Strong oxidizing agents, reducing agents, Amines, Mercaptans

10.3 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions - Carbon oxides, nitrogen oxides (NOx), Sulphur oxides, Hydrogen chloride gas.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

LD50 Oral – rat – 75 mg/kg

Skin corrosion/irritation:	Slight irritation
Serious eye damage/irritation:	Slight irritation
Respiratory or skin sensitization:	May cause allergic skin reaction.
Germ cell mutagenicity:	No data available
Carcinogenicity:	No data available
Reproductive toxicity:	No data available
Specific target organ toxicity (STOT) -single exposure:	No data available
Specific target organ toxicity (STOT) -repeated exposure:	No data available
Aspiration hazard:	Can cause severe burns.
Information on likely routes of exposure:	Routes of entry anticipated; Oral; dermal; inhalation

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Ingestion:	Harmful if swallowed. Causes burns.
Skin contact:	Harmful if absorbed through skin. Causes burns.
Eye contact:	Causes eye burns.

Delayed and immediate effects and also chronic effects from short - and long-term exposure:

Short term exposure: Potential immediate effects: Not available. Potential delayed effects: Not available.

Long term exposure: Potential immediate effects: Not available. Potential delayed effects: Allergic contact dermatitis.

Effects of chronic exposure:

No information available

Numerical measures of toxicity:

Not available

Other Information:

Not available

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

MATERIAL SAFETY DATA SHEET

No data available.

12.2 Biodegradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

Only relevant for the preservative.

Species	Type	Value	Exposition time (h)
Catfish	LC50 (mg/l)	7,5	24

Persistence and degradability

Substance t1/2 anaerob (h)

Bioaccumulative potential

No information available

Substance Log Pow

Bioaccumulation is not expected because log Pow < 1

SECTION 13

DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations.

13.2 Contaminated packaging

Dispose in the same manner as unused product.

13.3 Special precautions

Dispose of small amounts of spilled material as described in section 6. Large spills must be dealt with separately by qualified disposal personnel. Avoid dispersal of spilled material to soil, waterways, drains and sewers.

SECTION 14

TRANSPORT INFORMATION

UN Number:	None
DOT regulations: Hazard class:	None
Land transport ADR/RID (cross-border):	Not regulated.
Maritime transport IMDG:	Not regulated.
Marine pollutant:	No
Air transport ICAO-TI and IATA-DGR:	Not regulated.
Transport/Additional information:	Not dangerous according to above

SECTION 15

REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Act No. 350/2011 Coll., to regulate chemical substances and chemical mixtures and to amend some statutes, as amended. Implemented regulations to Act No. 350/2011 Coll., as amended. The Waste Act as amended. Government Decree No. 361/2007 Coll., to regulate the conditions of occupational health and safety, as amended. Regulation of the European Parliament and the

MATERIAL SAFETY DATA SHEET

Council (EC) No. 1907/2006 (REACH). Regulation of the European Parliament and the Council (EC) No. 1272/2008 (CLP). Commission Regulation (EU) No. 830/2015.

SECTION 16 OTHER INFORMATION

Full text of H- and P-phrases:

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

Note:

The safety data sheet contains data necessary for ensuring occupational health and safety and protection of the environment. The given data correspond to the current state of knowledge and experience and comply with valid legal regulations. The data cannot be considered a guarantee that the specific use of the product will be appropriate.

SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING

- 1.1 **Product identifier**
Trade name: Proclin300
Additional identification: solution with concentration 0.05%
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Component in Standard Diluent, Biotin Antibody/Antigen Dilution Buffer, HRP Conjugate Dilution Buffer
- 1.3 **Details of the supplier of the safety data sheet**

SECTION 2 HAZARDS IDENTIFICATION

- 2.1 **Classification of the substance or mixture**
Classification according to Regulation 1272/2008/EC:
Not a hazardous substance at concentration 0.05%
- 2.2 **Label elements**
Labeling according Regulation (EC) No 1272/2008
Acute toxicity, Oral 4
Pictograms: Skin corrosion, 1B
Serious eye damage, 1
Acute aquatic toxicity, 3
Chronic aquatic toxicity, 3



Signal word: Warning

Hazard statements: H302+H332, H314, H317, H410
Precautionary statements: P273, P280, P301 + P312, P303 + P361 + P353, P304 + P340 + P310, P305 + P351 + P338

MATERIAL SAFETY DATA SHEET

For full text of H- and P-phrases see section 16.

Responses:

IF SWALLOWED: Rinse mouth, DO NOT induce vomiting. Call a Poison Center or doctor/physician if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Call a POISON CENTER or doctor/physician if you feel unwell. See specific treatment in this MSDS. Remove/take off immediately all contaminated clothing. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF

IN EYES: Flush with water as a precaution.

2.3 Other hazards None

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENT

3.1	Mixtures				
	Modified alkyl carboxylate	-	Conc ≥ 2,5 - < 10%	Cas No -	EC No -
	5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H - isothiazol-3-one (3:1)	-	≥ 3 - < 5 %	Cas No 55965-84-9	EC No 911-418-6

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

After inhalation: Move person into fresh air. If not breathing, give artificial respiration. Consult a physician. Show this MSDS.

After skin contact: Wash off with soap and plenty of water. Consult a physician. Show this MSDS.

After eye contact: Flush eyes with water as a precaution and consult a physician. Show this MSDS.

After swallowing: Never give anything by mouth to an unconscious person. Rinse mouth with water. Call a physician. Show this MSDS.

4.2 Most important symptoms and effects, both acute and delayed

Unknown

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing agents

Dry chemical, carbon dioxide, water spray or alcohol-resistant foam.

5.2 Special hazards arising from the substance or mixture

Hazardous decomposition products formed under fire conditions. Carbon oxides and sodium oxides.

5.3 Protective equipment

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

SECTION 6 ACCIDENTAL RELEASE MEASURES

MATERIAL SAFETY DATA SHEET

6.1 Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate all personnel to safe areas.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then soak up with an inert absorbent material. Dispose according to local regulations.

SECTION 7

HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

7.2 Conditions for safe storage, including incompatibilities

Keep container tightly closed in a dry and well ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

SECTION 8

EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Component: Contains no substances with occupational exposure limits.

Appropriate engineering controls: Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling product.

8.2 Personal protective equipment

Eye and face protection: Safety glasses with side shields conforming to local safety standards. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN166 (EU).

Skin protection: Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection: Complete suit protection against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection: Where risk assessment shows nuisance exposure may be possible, use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection, use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143).

SECTION 9

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Odour:	Odorless
Odour threshold:	Not available
Melting point/freezing point:	-40°C
pH:	4,1 at 100 g/l
Partition coefficient: octanol/water:	Not available
Flash point:	118 °C - closed cup
Water solubility:	Not available
Evaporation rate:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor density:	1,03 g/cm3

MATERIAL SAFETY DATA SHEET

Vapor pressure:	Not available
Relative density:	Not available
Initial boiling point and boiling range:	189 °C
Auto igniting:	Not available
Decomposition temperature:	Not available
Viscosity:	Viscosity, kinematic: No data available Viscosity, dynamic: 58,8 mPa.s at 25 °C
Flammability (solid, gas):	Not available

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No known reactions under normal conditions of use.

10.2 Chemical Stability

Stable under normal recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Direct sources of heat.

10.5 Incompatible materials

Strong oxidizers.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. Carbon oxides and sodium oxides.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

Oral:	no data available
Inhalation:	no data available
Dermal:	no data available
Other:	LD50 Intraperitoneal – Rat – 550 mg/kg
Skin corrosion/irritation:	no data available
Serious eye damage/irritation:	no data available
Respiratory or skin sensitization:	no data available
Germ cell mutagenicity:	no data available
Carcinogenicity:	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed carcinogen by IARC, ACGIH, NTP or OSHA.
Reproductive toxicity:	no data available.
Information on likely routes of exposure:	no data available
Aspiration hazard:	no data available
Specific target organ toxicity (STOT) -single exposure:	no data available.
Specific target organ toxicity (STOT) - repeated exposure:	no data available.

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation:	May be harmful if inhaled. Causes respiratory tract irritation.
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MATERIAL SAFETY DATA SHEET

Ingestion:	Harmful if swallowed.
Skin contact:	Harmful if absorbed through skin. Causes skin irritation.
Eye Contact:	Causes eye irritation.

Delayed and immediate effects and also chronic effects from short - and long-term exposure:

To the best of our knowledge, the chemical, physical, and toxicological properties and affects have not been thoroughly investigated.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity Mixture

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Endocrine disrupting properties

Product Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Disposal methods

Dispose of waste in accordance to applicable national, regional, or local regulations. Contact a licensed professional waste disposal service to dispose of this material. Do not allow product to enter drains, water courses or the soil.

13.2 Contaminated packaging

Dispose in the same manner as unused product. Do not re-use empty containers.

SECTION 14 TRANSPORT INFORMATION

ADR/RID ADN/ADNR IMDG IATA/DOT ADR/DOT/
Not classified to the transport regulation

SECTION 15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Act No. 350/2011 Coll., to regulate chemical substances and chemical mixtures and to amend

MATERIAL SAFETY DATA SHEET

some statutes, as amended. Implemented regulations to Act No. 350/2011 Coll., as amended The Waste Act as amended. Government Decree No. 361/2007 Coll., to regulate the conditions of occupational health and safety, as amended. Regulation of the European Parliament and the Council (EC) No. 1907/2006 (REACH). Regulation of the European Parliament and the Council (EC) No. 1272/2008 (CLP). Commission Regulation (EU) No. 830/2015.

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16 OTHER INFORMATION

Full text of H- and P-phrases:

H302 + H332: Harmful if swallowed or if inhaled.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H410: Very toxic to aquatic life with long lasting effects.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ faceprotection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

Note:

The safety data sheet contains data necessary for ensuring occupational health and safety and protection of the environment. The given data correspond to the current state of knowledge and experience and comply with valid legal regulations. The data cannot be considered a guarantee that the specific use of the product will be appropriate.

1.1 Product identifier

Trade name: Phosphoric Acid

Additional identification: solution with phosphoric acid concentration 0.73M

Relevant identified uses of the substance or mixture and uses advised against

Stop Solution for the ELISA kit.

1.2 Details of the supplier of the safety data sheet

SECTION 2

HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

H290, H302, H314

For full text of H-phrases see section 16.

2.2 Label elements

Labeling according Regulation (EC) No 1272/2008 (CLP)

Pictogram Signal Word Warning

GHS05, GHS07



MATERIAL SAFETY DATA SHEET

Hazard statement(s) H290, H302, H314
Precautionary statement(s) none
Supplemental hazard statement none

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1	Mixtures	
	Chemical characterization:	Product does not burn
	Formula:	H ₃ PO ₄
	Molecular weight:	98 g/mol

Ingredient	Conc. %	EINECS	CAS-Nr.	Index-Nr.
Phosphoric Acid	0.73M	231-633-2	7664-38-2	017-002-01-X

Classification according to regulation 1272/2008/EC:

Met. Corr. 1; Acute Tox. 4; Skin Corr. 1B; Eye Dam. 1; H290, H302, H314, H318

For full text of H-phrases see section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

MATERIAL SAFETY DATA SHEET

- 5.3 Advice for firefighters**
Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4 Further information**
The product itself does not burn.

SECTION 6 ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment and emergency procedures**
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.
Evacuate personnel to safe areas.
For personal protection see section 8.
- 6.2 Environmental precautions**
Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up**
Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections**
For disposal see section 13.

SECTION 7 HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. For precautions see section 2.2.
- 7.2 Conditions for safe storage, including any incompatibilities**
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Storage class (TRGS 510): Non-combustible, corrosive hazardous materials
- 7.3 Specific end use(s)**
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

- 8.1 Control parameters**
Components with workplace control parameters
- 8.2 Exposure controls**
Appropriate engineering controls
Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment Eye/face protection
Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
Skin protection
Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
Body Protection
Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

MATERIAL SAFETY DATA SHEET

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Control of environmental exposure

Do not let product enter drains.

SECTION 9

PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	liquid form
Odor	No data available
Odor Threshold	No data available
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	Not applicable
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Other safety information	No data available

SECTION 10

STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No data available

10.4 Conditions to avoid

No data available

10.5 Incompatible materials

Bases, Amines, Alkali metals, Metals, hexalithium disilicide, permanganates, e.g. potassium permanganate, Fluorine

10.6 Hazardous decomposition products

Other decomposition products - No data available

SECTION 11

TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

No data available

Acute toxicity

MATERIAL SAFETY DATA SHEET

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity No data available**Carcinogenicity**

IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Hydrochloric acid)

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard No data available**Additional Information**

RTECS: Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12

ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No data available

SECTION 13

DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product

SECTION 14

TRANSPORT INFORMATION

14.1 UN number

ADR/RID: 1805 / IMDG: 1805 / IATA: 1805

14.2 UN proper shipping name

ADR/RID: PHOSPHORIC ACID / IMDG: PHOSPHORIC ACID / IATA: Phosphoric acid

14.3 Transport hazard class(es)

ADR/RID: 8 / IMDG: 8 / IATA: 8

MATERIAL SAFETY DATA SHEET

14.4 Packaging group

ADR/RID: III / IMDG: III / IATA: III

14.5 Environmental hazards

ADR/RID: no / IMDG Marine pollutant: no / IATA: no

14.6 Special precautions for user

No data available

SECTION 15

REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16

OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and

H302 + H332: Harmful if swallowed or if inhaled.

H314: Causes severe skin burns and eye damage.

H317: May cause an allergic skin reaction.

H410: Very toxic to aquatic life with long lasting effects.

P273: Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312: IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Note:

The safety data sheet contains data necessary for ensuring occupational health and safety and protection of the environment. The given data correspond to the current state of knowledge and experience and comply with valid legal regulations. The data cannot be considered a guarantee that the specific use of the product will be appropriate.