

Human Interleukin-2 ELISA, High Sensitivity

Revision Date: 4.1.2018

The RGP011R Human Interleukin-2 ELISA, High Sensitivity Kit is a solid phase sandwich ELISA for the quantitative determination interleukin-2 (IL-2) in human serum, plasma, buffered solutions and cell culture media.

For professional use only. Users should have a thorough understanding of the Product Data Sheet prior to their use of this kit.

Kit Components:

- A) Antibody Coated Microtiter Strips
- B) Plastic cover
- C) Standard
- D) Standard Diluent: buffer
- E) Standard Diluent: human serum
- F) Biotinylated anti-IL-2
- G) Biotinylated Antibody Diluent
- H) Streptavidin-HRP
- I) Amplification Diluent
- J) Amplifier
- K) HRP Diluent
- L) Washing Buffer
- M) Chromogen TMB
- N) Stop Reagent

Components D), F), K) containing ProClin 300 (0,1% – 1,0%) and component J) are hazardous mixtures according to CLP Regulation (EC) as amended.

The other components do not contain any hazardous mixture according to CLP Regulation (EC) as amended.

Safety Data Sheets for ProClin 300 (0,1% – 1,0%) and Amplifier according to actual Regulations (EC/EU) are attached. Safety Data Sheet for the Sulphuric Acid < 5% (Stop Reagent) that should be available on request (EUH210) is attached too.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament
and the Council (REACH) and Commission Regulation (EU) No. 830/2015

ProClin 300 (0.1% – 1.0%)

Date of issue: 13.10.2017

Supersedes date:

SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: ProClin 300 (0.1% – 1.0%)

Additional identification: Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1), solutions with **C < 0,06%**

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

Preservative compound.

1.3 Details of the supplier of the safety data sheet

BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno
Czech Republic
Identification number: 63471507

Tel: +420 549 124 185

E-mail: info@biovendor.com

1.4 Emergency telephone number

Toxicology information centre, Na Bojišti 1, 128 21 Prague, Czech Republic, Tel: +420 224 919 293 or +420 224 915 402 (non-stop service).

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Mixtures containing 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1) $0,0015\% \leq C < 0,06\%$ are considered hazardous according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram:



Signal word:

Warning

Hazard statements:

H317

Precautionary statements:

P261, P264, P272, P280 and P305+P351+P338: IF IN EYES

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

2.3 Supplemental hazards statements

None

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament
and the Council (REACH) and Commission Regulation (EU) No. 830/2015

ProClin 300 (0.1% – 1.0%)

Date of issue: 13.10.2017

Supersedes date:

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Description: ProClin 300 is a mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)

Ingredient

5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H -isothiazol-3-one (3:1)

Conc. %	CAS-Nr.	Index-Nr.
< 0.06	55965-84-9	613-167-00-5

Classification according to regulation 1272/2008/EC:

Skin Sens. 1, H317

Specific concentration limits: Skin Corr. 1B, H314: C≥0,6 %; Skin Irrit. 2, H315: 0,06 %≤C<0,6 %; Eye Irrit. 2, H319: 0,06 %≤C<0,6 %; Skin Sens. 1, H317: C≥0,0015 %, EUH208: C≥0,00015 %

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.

ProClin 300 (0.1% – 1.0%)

Date of issue: 13.10.2017
Supersedes date:

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling:

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

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
Odour:	Not available
Odour threshold:	Not available
pH:	Not available
Melting point/freezing point:	-40°C
Boiling point/Boiling range:	189°C
Flash point:	118°C – closed cup
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

ProClin 300 (0.1% – 1.0%)

Date of issue: 13.10.2017
Supersedes date:

Vapor density:	Not available
Vapor pressure:	Not available
Relative density:	1.03 g/cm ³
Solubility in/Miscibility with Water:	Soluble
Partition coefficient: n-octanol/water:	Not available
Auto igniting:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

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 – 862 mg/kg

LD50 Dermal – rabbit- 2800 mg/kg

Skin corrosion/irritation: Can cause severe burns. Skin – rabbit – Corrosive

Serious eye damage/irritation: Rabbit – Corrosive to eyes

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.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament
and the Council (REACH) and Commission Regulation (EU) No. 830/2015

ProClin 300 (0.1% – 1.0%)

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Supersedes date:

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:

ProClin 300 at levels greater than or equal to 0.1% is not identified as probable, possible or a confirmed human carcinogen by IARC.

Numerical measures of toxicity:

Not available

Other Information:

Not available

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

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

Toxic to aquatic organisms.

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.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

ProClin 300 (0.1% – 1.0%)

Date of issue: 13.10.2017

Supersedes date:

SECTION 14 TRANSPORT INFORMATION

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

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 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

Date of issue: 13.10.2017

Supersedes date:

Full text of H- and P-phrases:

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

P261 Avoid breathing mist.

P264 Wash hands thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves and safety glasses.

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.

Amplifier

Date of issue: 11.12.2017
Supersedes date: 29.11.2017

SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Trade name: Amplifier

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

Assay amplifier.

1.3 Details of the supplier of the safety data sheet

BioVendor - Laboratorní medicína a.s.
Karásek 1767/1
621 00 Brno
Czech Republic
Identification number: 63471507

Tel: +420 549 124 185

E-mail: info@biovendor.com

1.4 Emergency telephone number

Toxicology information centre, Na Bojišti 1, 128 21 Prague, Czech Republic, **Tel: +420 224 919 293 or +420 224 915 402 (non-stop service).**

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Flammable liquid, Flam. Liq. 2, H225

2.2 Label elements

Hazard pictogram:



Signal word:

Danger

Hazard statements:

H225 Highly flammable liquid and vapour.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P403+P235 Store in a well-ventilated place. Keep cool.

2.3 Other hazards

Not known.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Amplifier

Date of issue: 11.12.2017
Supersedes date: 29.11.2017

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

3.2 Mixtures

Ingredient	Conc. in w/w%	EINECS	CAS-Nr.	Index-Nr.
Ethanol	40-50	200-578-6	64-17-5	603-002-00-5

Classification according to regulation 1272/2008/EC:

Flam. Liq. 2, H225

Ingredient	Conc. in w/w%	EINECS	CAS-Nr.	Index-Nr.
Disodium tetraborate, decahydrate	<1,9	215-540-4	1303-96-4	005-011-01-1

Classification according to regulation 1272/2008/EC:

Repr. 1B, H360FD

Specific concentration limits: Repr. 1B, H360FD: C≥8,5 %.

Substance of very high concern (SVHC) and included in the candidate list for authorisation.

For full text of H-phrases see section 16.

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information: If feeling unwell or unsure, inform a doctor and show information from this Safety Data Sheet.

If inhaled: Supply fresh air; consult doctor in case of complaints.

In case of skin contact: Rinse with water and soap but generally the product does not irritate the skin.

In case of contact with eyes: Rinse opened eye for several minutes under running water; if the affected person wears contact lenses, remove them.

If ingested: If symptoms persist consult doctor. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and delayed

Adverse effects are not known.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention is not necessary.

SECTION 5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

Unsuitable extinguishing media: none known.

5.2 Special hazards arising from the substance or mixture

Do not breathe fumes. Highly flammable liquid and vapours. Contains ethanol.

5.3 Advice for firefighters

No special measures required.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation. Wear proper protective equipment, refer to Section 8.

6.2 Environmental precautions

Do not allow to enter sewers / surface or ground water.

Amplifier

Date of issue: 11.12.2017

Supersedes date: 29.11.2017

6.3 Methods and material for containment and cleaning up

Dilute with plenty of water and absorb with wipe dry. Dispose of in compliance with Section 13. Dispose of the contained material in accordance with local regulations. After containment, wash the affected area with plenty of water.

6.4 Reference to other sections

See section 7 for handling, section 8 for personal protective equipment, section 13 for disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not inhale gases and vapours. Avoid contact with the skin and the eyes. Wear suitable personal protective equipment according to Section 8. Comply with local and national regulations on occupational health and safety. Avoid long-term and repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Keep in tightly closed containers and in cool, dry and well ventilated designated places. Open packaging must be carefully closed and kept in a vertical position to avoid release or spill. Keep away from alkaline materials.

7.3 Specific end use(s)

See Section 1.2., no other uses are identified.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use in well ventilated area.

8.2.2 Individual protection measures, such as personal protective equipment

Take usual occupational health and safety measures. If it is impossible to meet exposition limits, suitable respiratory protective equipment must be used. When using, do not eat, drink and smoke. Wash hands carefully with water and soap after work and before breaks.

a) Eye/face protection: Goggles recommended during refilling (according to EN 166).

b) Skin protection: *i) Hand protection:* Use suitable protective gloves resistant to the product. Follow the recommendations of the gloves manufacturer when selecting the appropriate thickness, material and permeability. In the event of long-term or repeated dermal exposure, apply suitable hand cream to the parts of the skin in direct contact with the mixture. Follow other recommendations of the manufacturer.
ii) Other: Protective clothing.

c) Respiratory protection: Not required.

d) Thermal hazards: No information available.

8.2.3 Environmental exposure controls

Refer to Sections 6 and 12.

Amplifier

Date of issue: 11.12.2017
Supersedes date: 29.11.2017

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (at 20°C):	Colourless liquid
Odour:	Odourless
Odour threshold:	Not determined
pH:	8,5
Melting point/freezing point (°C):	No data available
Initial boiling point and boiling range (°C):	No data available
Flash point (°C):	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	
Relative density:	No data available
Solubility(ies):	Soluble in water
Partition coefficient n-octanol/water:	
Auto-ignition temperature (°C):	
Decomposition temperature:	
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other information

None known.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions occur under common conditions of use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions occur under common conditions of use.

10.4 Conditions to avoid

High temperatures, flames, sparks.

10.5 Incompatible materials

Not known under recommended conditions of use.

10.6 Hazardous decomposition products

They are not produced under normal use.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:	Classification criteria are not met.
Skin corrosion/ irritation:	Classification criteria are not met.
Serious eye damage/ irritation:	Classification criteria are not met.
Respiratory or skin sensitisation:	Classification criteria are not met.

Amplifier

Date of issue: 11.12.2017

Supersedes date: 29.11.2017

Germ cell mutagenicity:	Classification criteria are not met.
Carcinogenicity:	Classification criteria are not met.
Reproductive toxicity:	Classification criteria are not met. Contains Disodium tetraborate – substance classified as Repr.1B, H360FD.
STOT – single exposure:	Classification criteria are not met.
STOT – repeated exposure:	Classification criteria are not met.
Aspiration hazard:	Classification criteria are not met.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

No data available on the product itself. The mixture is not classified as dangerous for environment.

12.2 Persistence and biodegradability

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

Does not meet the criteria for PBT and vPvB.

12.6 Other adverse effects

No data available.

SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Proceed in accordance with local/ regional/ national/ international regulations on waste disposal. Appropriate methods of waste treatment of both the substance or the mixture and any contaminated packaging:

The indicated waste, including the waste identification sheet, shall be handed over to a company authorized to treat and dispose of wastes.

Both completely empty and not completely empty packaging shall be placed in designated containers for waste collection and the indicated waste shall be handed over for disposal to a person authorized to dispose of the waste.

SECTION 14 TRANSPORT INFORMATION

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

Amplifier

Date of issue: 11.12.2017

Supersedes date: 29.11.2017

14.5 Environmental hazards

No data available.

14.6 Special precautions for user

No data available.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

SECTION 15 REGULATORY INFORMATION

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

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.

The product contains Disodium tetraborate, decahydrate, CAS 1303-96-4 - substance of very high concern (SVHC) and included in the candidate list for authorisation.

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16 OTHER INFORMATION

Date of issue: 11.12.2017

Revision notes: new composition, classification and labelling.

Full text of H-phrases:

H225 Highly flammable liquid and vapour.

H360FD May damage fertility. May damage the unborn child.

Advice on training

Workers shall receive appropriate training to acquaint them with the recommended use, mandatory protective equipment, first aid measures and banned manners of handling the mixture.

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.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament
and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Sulphuric Acid < 5%

Date of issue: 30.7.2015
Supersedes date:

SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: Sulphuric Acid < 5%

Additional identification: Sulfuric Acid < 5%

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

Stop solution for the ELISA kit.

1.3 Details of the supplier of the safety data sheet

BioVendor - Laboratorní medicína a.s.

Karásek 1767/1

621 00 Brno

Czech Republic

Identification number: 63471507

Tel: +420 549 124 185

E-mail: info@biovendor.com

1.4 Emergency telephone number

Toxicology information centre, Na Bojišti 1, 128 21 Prague, Czech Republic, Tel: +420 224 919 293 or +420 224 915 402 (non-stop service).

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation 1272/2008/EC:

Not classified as dangerous.

2.2 Label elements

Not applicable.

EUH210 Safety data sheet available on request.

2.3 Other hazards

Concentration limits for classification as dangerous are not met.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Ingredient	Conc. in w/w%	EINECS	CAS-Nr.	Index-Nr.
Sulphuric acid, 98%	< 5	231-639-5	7664-93-9	016-020-00-8

Classification according to regulation 1272/2008/EC:

Skin Corr. 1A, H314

Specific concentration limits: Skin Corr. 1A, H314: C≥15 %; Skin Irrit. 2, H315: 5 %≤C<15%; Eye Irrit. 2, H319: 5%≤C<15%.

For full text of H-phrases see section 16.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament
and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Sulphuric Acid < 5%

Date of issue: 30.7.2015

Supersedes date:

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

General information: If feeling unwell or unsure, inform a doctor and show information from this Safety Data Sheet. If unconscious, place the affected person in the recovery position on their side with their head slightly backwards and take care there is no obstruction in their respiratory tract, NEVER induce vomiting. If the affected person is vomiting, ensure that they do not choke on their own vomit.

If inhaled: Immediately stop the exposure, take the affected person to fresh air. Keep the affected person warm. Get medical attention if irritation, shortness of breath or other symptoms persists.

In case of skin contact: Take off contaminated clothing. Wash the affected area with plenty of lukewarm water, if possible. If skin is not irritated, soap, soap solution or shampoo can be used. Get medical attention if irritation persists.

In case of contact with eyes: Rinse the eyes immediately with plenty of running water keeping eyelids open; if the affected person wears contact lenses, remove them immediately. Continue rinsing for minimum 10 minutes. Get medical attention.

If ingested: DO NOT INDUCE VOMITING – even the act of inducing vomiting may cause complications. Rinse mouth, if possible, administer a small dose of activated carbon (1-2 crushed tablets); do not attempt neutralization. Get medical attention.

4.2 Most important symptoms and effects, both acute and delayed

Inhalation: Possible respiratory tract irritation, cough, headache.

Skin contact: Painful reddening, irritation.

Eye contact: May cause irritation.

Ingestion: May cause irritation, sickness.

4.3 Indication of any immediate medical attention and special treatment needed

Immediate medical attention is not necessary.

SECTION 5 FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: Alcohol resistant foam, carbon dioxide, powder, dispersed water, water spray.

Unsuitable extinguishing media: none known.

5.2 Special hazards arising from the substance or mixture

In case of fire sodium oxides can be released.

5.3 Advice for firefighters

Keep the contaminated fire-extinguishing media away from drains, surface and ground water. If necessary, wear a suitable self-contained breathing apparatus and full protective clothing.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Ensure sufficient ventilation. Wear proper protective equipment, refer to Section 8.

MATERIAL SAFETY DATA SHEET

in accordance with Regulation (EC) No. 1907/2006 of the European Parliament and the Council (REACH) and Commission Regulation (EU) No. 830/2015

Sulphuric Acid < 5%

Date of issue: 30.7.2015

Supersedes date:

6.2 Environmental precautions

Avoid soil contamination and keep away from surface and ground water. Avoid spills and keep away from drains.

6.3 Methods and material for containment and cleaning up

Cover spills with suitable (non-flammable) absorbent (sand, diatomaceous earth, soil, and other suitable absorbent material); collect in a tightly closed container and dispose of in compliance with Section 13. Dispose of the contained material in accordance with local regulations. After containment, wash the affected area with plenty of water or other suitable detergent.

6.4 Reference to other sections

See section 7 for handling, section 8 for personal protective equipment, section 13 for disposal.

SECTION 7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Do not inhale gases and vapours. Avoid contact with the skin and the eyes. Wear suitable personal protective equipment according to Section 8. Comply with local and national regulations on occupational health and safety. Avoid long-term and repeated exposure.

7.2 Conditions for safe storage, including any incompatibilities

Keep in tightly closed containers and in cool, dry and well ventilated designated places. Open packaging must be carefully closed and kept in a vertical position to avoid release or spill. Keep away from alkaline materials.

7.3 Specific end use(s)

See Section 1.2., no other uses are identified.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Czech Republic (Government Decree no. 361/2007 Sb. as amended): Sulphuric acid, SO₃: long term 1 mg/m³, short term 2 mg/m³, note I (causes irritation of mucous membranes (eyes, respiratory tract) and skin irritation).

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Use in well ventilated area.

8.2.2 Individual protection measures, such as personal protective equipment

Take usual occupational health and safety measures. If it is impossible to meet exposition limits, suitable respiratory protective equipment must be used. When using, do not eat, drink and smoke. Wash hands carefully with water and soap after work and before breaks.

a) Eye/face protection: Use protective glasses (according to EN 166).

b) Skin protection: i) *Hand protection:* Use suitable protective gloves resistant to the product. Follow the recommendations of the gloves manufacturer when selecting the appropriate thickness, material and permeability. In the event of long-term or repeated dermal exposure, apply suitable hand

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cream to the parts of the skin in direct contact with the mixture. Follow other recommendations of the manufacturer.

ii) Other: Protective cotton clothing. Carefully wash the skin exposed to the product.

c) Respiratory protection: If necessary, wear a face respirator (according to EN 14387).

d) Thermal hazards: No information available.

8.2.3 Environmental exposure controls

Refer to Sections 6 and 12.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance (at 20°C):	Colourless liquid
Odour:	Odourless
Odour threshold:	Not determined
pH:	
Melting point/freezing point (°C):	No data available
Initial boiling point and boiling range (°C):	No data available
Flash point (°C):	No data available
Evaporation rate:	No data available
Flammability:	No data available
Upper/lower flammability or explosive limits:	No data available
Vapour pressure:	No data available
Vapour density:	
Relative density:	No data available
Solubility(ies):	Soluble in water
Partition coefficient n-octanol/water:	
Auto-ignition temperature (°C):	
Decomposition temperature:	
Viscosity:	No data available
Explosive properties:	No data available
Oxidizing properties:	No data available

9.2 Other information

None known.

SECTION 10 STABILITY AND REACTIVITY

10.1 Reactivity

No hazardous reactions occur under common conditions of use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reacts with strong bases.

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10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

Not known under recommended conditions of use.

10.6 Hazardous decomposition products

They are not produced under normal use. In the event of fire: sulphur oxides

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity:

No data available on the product itself.

Sulphuric acid:

LD50, oral, rat: 3140 mg/kg
LD50, inhalation, rat: 510 mg/m³/2 h

Corrosion/ irritation: May cause mild irritation. Product is not classified as irritant.

Chronic toxicity

Sensitisation: No data available.
Narcotic effects: No data available.
Carcinogenicity: No data available.
Mutagenity: No data available.
Reproduction toxicity: No data available.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity

No data available on the product itself.

Sulphuric acid:

LC50, fish, *Gambusia affinis*, 96 h: 42 mg/l
LC50, crustaceans, *Pandalus montagui*, 48 h: 42.5 mg/l

12.2 Persistence and biodegradability

No data available.

12.3 Bioaccumulative potencial

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Does not meet the criteria for PBT and vPvB.

12.6 Other adverse effects

No data available.

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SECTION 13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Proceed in accordance with Act No. 185/2001 Coll., the Waste Act, as amended, Act No. 188/2004 Coll., to amend Act No. 185/2001 Coll.; Act No. 477/2001 Coll., to regulate packaging and to amend some statutes (the Packaging Act), as amended and in accordance with implemented regulations on waste disposal.

Appropriate methods of waste treatment of both the substance or the mixture and any contaminated packaging:

The indicated waste, including the waste identification sheet, shall be handed over to a company authorized to treat and dispose of wastes according to the Waste Act and that the company producing waste has entered into a contract with.

Both completely empty and not completely empty packaging shall be placed in designated containers for waste collection and the indicated waste shall be handed over for disposal to a person authorized to dispose of the waste.

Waste type code	060101
Waste type	sulphuric acid and sulphurous acid *
Waste subgroup	waste from production, processing, distribution and use (VZDP) of acids
Waste group	WASTE CREATED BY ANORGANIC CHEMICAL PROCESSES

Waste type code for packaging	150110
Waste type	packaging containing residues of dangerous substances or packaging contaminated with these substances*
Waste subgroup	Packaging (including separately collected household packaging material)
Waste group	WASTE PACKAGING; ABSORPTION AGENTS; CLEANING CLOTHS; FILTRATION MATERIALS AND PROTECTIVE CLOTHING NOT SPECIFIED IN ANY OTHER MANNER

(*) – hazardous waste according to Directive No. 91/689/EEC on hazardous waste

SECTION 14 TRANSPORT INFORMATION

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Not regulated.

14.3 Transport hazard class(es)

Not regulated.

14.4 Packing group

Not regulated.

14.5 Environmental hazards

No data available.

14.6 Special precautions for user

No data available.

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14.7 Transport in bulk according to Annex II of Marpol73/78 and the IBC Code

No data available.

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 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

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Full text of H-phrases:

H314 Causes severe skin burns and eye damage.

Advice on training

Workers shall receive appropriate training to acquaint them with the recommended use, mandatory protective equipment, first aid measures and banned manners of handling the mixture.

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.