

Safety Information
25OH Vitamin D Total ELISA

Revision Date: 7.4.2016

The RIS020R 25OH Vitamin D Total ELISA is an immunoenzymetric assay for the quantitative measurement of 25-hydroxyvitamin D2 and D3 (25OH-D2 and 25OH-D3) in serum.

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) Microtiterwells
- B) Concentrate HRP
- C) Conjugate Concentrated
- D) Conjugate buffer
- E) Incubation Buffer
- F) Calibrator 0
- G) Calibrators 1-5
- H) Controls N = 2
- I) Wash Solution
- J) Chromogen TMB
- K) Stop Solution

Components D-H containing 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (ProClin 300) are hazardous mixtures according to CLP Regulation (EC) as amended.

Safety Data Sheet for ProClin 300 < 0.06% according to actual Regulations (EC/EU) is attached.

Incubation Buffer containing pentadecafluorooctanoic acid - PFOA is a hazardous mixture according to CLP Regulation (EC) as amended.

Safety Data Sheet for Pentadecafluorooctanoic acid – PFOA according to actual Regulations (EC/EU) is attached.

Stop Solution containing hydrochloric acid is a hazardous mixture according to CLP Regulation (EC) as amended.

Safety Data Sheet for Hydrochloric Acid < 5% according to actual Regulations (EC/EU) is attached.

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

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 < 0.06%

Date of issue: 4.8.2015

Supersedes date:

SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: ProClin 300 < 0.06%

Additional identification: Mixture of 5-Chloro-2-methyl-4-isothiazolin-3-one and 2-Methyl-2H - isothiazol-3-one (3:1), solution with conc. < 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 ProClin 300 (< 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.

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 < 0.06%

Date of issue: 4.8.2015

Supersedes date:

2.3 Supplemental hazards statements

None

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	Conc. %	CAS-Nr.	Index-Nr.
ProClin 300	< 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 \geq 0,6 %; Skin Irrit. 2, H315: 0,06 % \leq C<0,6 %; Eye Irrit. 2, H319: 0,06 % \leq C<0,6 %; Skin Sens. 1, H317: C \geq 0,0015 %, EUH208: C \geq 0,0015 %

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.

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 < 0.06%

Date of issue: 4.8.2015

Supersedes date:

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 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
Odor:	Not available
Odor threshold:	Not available
pH:	Not available
Melting point/freezing point:	-40°C
Boiling point/Boiling range:	189°C

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 < 0.06%

Date of issue: 4.8.2015

Supersedes date:

Flash point:	118°C – closed cup
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor density :	Not available
Vapor pressure:	Not available
Relative density:	1.03 g/cm ³
Solubility in/Miscibility with Water:	Soluble
Partition coefficient: noctanol/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.

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 < 0.06%

Date of issue: 4.8.2015

Supersedes date:

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:

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.

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 < 0.06%

Date of issue: 4.8.2015
Supersedes date:

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 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: 4.8.2015

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.

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 < 0.06%

Date of issue: 4.8.2015

Supersedes date:

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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING

1.1 Product identifier

Trade name: Pentadecafluorooctanoic acid - PFOA

Additional identification: solution with concentration < 3%

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

Component in Incubation Buffer

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 a hazardous substance at concentration < 3%

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Acute toxicity, Oral 4

Skin corrosion, 1B

Serious eye damage, 1

Acute aquatic toxicity, 3

Chronic aquatic toxicity, 3

Pictograms:



Signal word:

Warning

Hazard statements:

H302, H314, H412

Precautionary statements:

P260, P264, P270, P273, P280:

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.

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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

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 INGREDIENTS

3.1 Mixtures

Ingredient	Formula	Conc. %	EC-No.	CAS-Nr.
Pentadecafluorooctanoic acid	C ₂ HF ₁₅ O ₂	< 3	206-397-9	335-67-1

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.

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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

SECTION 6 ACCIDENTAL RELEASE MEASURES

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).

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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance:	Solid
Odour:	Odourless
Odour threshold:	Not available
Melting point/freezing point:	55-56°C
pH:	2.6 at 1 g/l
Partition coefficient: noctanol/water:	Not available
Flash point:	Not available
Water solubility:	Not available
Evaporation rate:	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor density:	Not available
Vapor pressure:	0.69 hPa at 25°C
Relative density:	Not available
Boiling point/Boiling range:	189°C at 981 hPa
Auto igniting:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available
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.

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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

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 – 189 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.

Specific target organ toxicity (STOT) -single exposure: no data available

Specific target organ toxicity (STOT) -repeated exposure: no data available.

Aspiration hazard: no data available

Information on likely routes of exposure: no data available

Symptoms related to the physical, chemical and toxicological characteristics:

Inhalation: May be harmful if inhaled. Causes respiratory tract irritation.

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 effects have not been thoroughly investigated.

SECTION 12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxicity to Fish: No data available.

12.2 Biodegradability

No data available.

12.3 Bioaccumulative potential

No data 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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No data available.

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/: UN Number: UN 3261

RID **Proper Shipping Name:** Corosive solid, acidic, organic, N.O.S. (Pentadecafluorooctanoic acid)

Hazard class: 8

Packing group: III

IATA: UN Number: UN 3261

Proper Shipping Name: Corosive solid, acidic, organic, N.O.S. (Pentadecafluorooctanoic acid)

Hazard class: 8

Packing group: III

IMDG: UN Number: UN 3261

Proper Shipping Name: Corosive solid, acidic, organic, N.O.S. (Pentadecafluorooctanoic acid)

Hazard class: 8

Packing group: III

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.

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

Pentadecafluorooctanoic acid - PFOA

Date of issue: 4.8.2015

Supersedes date:

15.2 Chemical safety assessment

Chemical safety assessment has not been carried out.

SECTION 16 OTHER INFORMATION

Date of issue: 4.8.2015

Supersedes date:

Full text of H- and P-phrases:

H302: Harmful if swallowed.

H314: Causes severe skin burns and eye damage.

H412: Harmful to aquatic life with long lasting effects.

P260: Do not breathe dust or mist.

P264: Wash hands thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P273: Avoid release to the environment.

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

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

Hydrochloric 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: Hydrochloric Acid < 5%

Additional identification: solution with hydrochloric acid concentration < 5% w/w

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 (EC) No 1272/2008

Corrosive to metals (Category 1), H290

For full text of H-phrases see section 16.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Pictogram



Signal word

Warning

Hazard statement(s)

H290

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.

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

Hydrochloric Acid < 5%

Date of issue: 30.7.2015

Supersedes date:

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixtures

Chemical characterization: Product does not burn

Formula: HCl

Molecular weight: 36.46 g/mol

Ingredient	Conc. %	EINECS	CAS-Nr.	Index-Nr.
Hydrochloric acid	≥1 - < 5	231-595-7	7647-01-0	017-002-01-X

Classification according to regulation 1272/2008/EC:

Met. Corr. 1; Skin Corr. 1B; STOT SE 3; H290, H314, H335

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.

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5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

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 vapour 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

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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.

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
Odour	No data available
Odour 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
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available

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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

9.2 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

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

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

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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: 1789 / IMDG: 1789 / IATA: 1789

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14.2 UN proper shipping name

ADR/RID: HYDROCHLORIC ACID / IMDG: HYDROCHLORIC ACID / IATA: Hydrochloric acid

14.3 Transport hazard class(es)

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

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

Date of issue: 30.7.2015

Supersedes date:

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

Met. Corr. Corrosive to metals

Skin Corr. Skin corrosion

STOT SE Specific target organ toxicity - single exposure

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.