

## Safety Information

### Rat TSH ELISA

Revision Date: 01.02.2021

The RTC007R Rat TSH ELISA is an enzyme immunoassay for the quantitative measurement of TSH in rat 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) Microtiterplate,
- B) Master Calibrator
- C) Enzyme Conjugate
- D) Calibrator/Sample Diluent
- E) Wash Solution
- F) Substrate Solution
- G) Stop Solution

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

Safety Data Sheet for Hydrochloric Acid < 10% according to actual Regulations (EC/EU) is attached.

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

#### **EUH208**

Some components contain 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (ProClin 300) in concentration < 0.0015%. May produce an allergic reaction.

**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 < 10%**

Date of issue: 25.4.2019

Supersedes date:

**SECTION 1 IDENTIFICATION OF THE PREPARATION AND OF COMPANY/UNDERTAKING**

**1.1 Product identifier**

**Trade name:** Hydrochloric Acid < 10%

**Additional identification:** solution with hydrochloric acid concentration < 10% 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.

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**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1 Mixtures**

Chemical characterization: Product does not burn

Formula: HCl

Molecular weight: 36.46 g/mol

<b>Ingredient</b>	<b>Conc. %</b>	<b>EINECS</b>	<b>CAS-Nr.</b>	<b>Index-Nr.</b>
Hydrochloric acid	< 10	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. For this substance/mixture no limitations of extinguishing agents are given.

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**5.2 Special hazards arising from the substance or mixture**

Not combustible.

Ambient fire may liberate hazardous vapours.

Fire may cause evolution of: Hydrogen chloride gas

**5.3 Advice for firefighters**

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

**5.4 Further information**

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

**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. Change contaminated clothing. Wash hands after working with substance.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Store in cool place. Keep container (no metal) 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

## Hydrochloric Acid < 10%

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<b>SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION</b>
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### 8.1 Control parameters

#### Components with workplace control parameters

##### Hydrochloric Acid

EH40 WEL	Short Term Exposure	5 ppm	Form of exposure: Gas and aerosol mists.
	Limit (STEL):	8 mg/m <sup>3</sup>	
	Time Weighted	1 ppm	Form of exposure: Gas and aerosol mists.
	Average (TWA):	2 mg/m <sup>3</sup>	

#### Derived No Effect Level (DNEL)

##### Hydrochloric Acid

Worker DNEL, acute	Local effects	inhalation	15 mg/m <sup>3</sup>
Worker DNEL, long term	Local effects	inhalation	8 mg/m <sup>3</sup>

#### Recommended monitoring procedures

Methods for measurement of the workplace atmosphere have to correspond to the requirements of norms DIN EN 482 and DIN EN 689.

#### Predicted No Effect Concentration (PNEC)

##### Hydrochloric Acid

PNEC Fresh water	0.036 mg/l
PNEC Marine water	0.036 mg/l
PNEC Aquatic intermittent release	0.045 mg/l
PNEC Sewage treatment plant	0.036 mg/l

### 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

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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
Colour	colourless
Odour	odourless
Odour Threshold	No data available
pH	< 1 at 20°C
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
Density	ca.1.03 g/cm <sup>3</sup> at 20°C
Relative density	No data available
Water solubility	soluble et 20°C
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**

Generates dangerous gases or fumes in contact with:

Metals

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Violent reactions possible with:  
The generally known reaction partners of water.

**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**

in the event of fire: See section 5.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Acute toxicity**

No data available

**Skin corrosion/irritation**

Possible damages: slight irritation

**Serious eye damage/eye irritation**

Possible damages: slight irritation

**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)

**Reproductive toxicity**

No data available

**Specific target organ toxicity - single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure.

**Specific target organ toxicity - repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

**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.

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**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**

**Additional ecological information**

Discharge into the environment must be avoided.

**SECTION 13 DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

**Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

**Contaminated packaging**

Dispose of as unused product

**SECTION 14 TRANSPORT INFORMATION**

**14.1 UN number**

ADR/RID: 1789 / IMDG: 1789 / IATA: 1789

**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

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**14.6 Special precautions for user**

ADR/RID: E / IMDG: EmS (F-A S-B) / IATA: no

**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:** 25.4.2019

**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.