

## SAFETY INFORMATION

**Product name:** HUMAN LIPOCALIN-2/NGAL ELISA  
**Catalogue number:** RD191102200R  
**Characteristics:** The RD191102200R Human Lipocalin-2/NGAL ELISA is a sandwich enzyme immunoassay for the quantitative measurement of human lipocalin-2.  
**Intended use:** For professional use only. Users should have a thorough understanding of the IFU prior to their use of this kit.

**Manufacturer:** BioVendor – Laboratorní medicína a.s.  
**Registered office:** Karásek 1767/1, 621 00 Brno, Czech republic  
**Company ID:** 63471507

Kit Components	Contents hazardous substance
Antibody Coated Microtiter Strips	No
Biotin Labelled Antibody Conc. (20x)	No
Streptavidin-HRP Conjugate	StabilZyme™ HRP Conjugate Stabilizer
Master Standard	StabilZyme™ HRP Conjugate Stabilizer
Quality Control HIGH	StabilZyme™ HRP Conjugate Stabilizer
Quality Control LOW	StabilZyme™ HRP Conjugate Stabilizer
Dilution Buffer	No
Biotin-Ab Diluent	No
Wash Solution Conc. (10x)	No
Substrate Solution	No
Stop Solution	Sulphuric Acid < 5%

Safety Data Sheets in accordance with the current (EC/EU) Regulations as amended are attached.

<b>SECTION 1</b>	<b>IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING</b>
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**1.1 Product identifier**

**Trade name:** StabilZyme™ HRP Conjugate Stabilizer

**Code:** SZ02

**Product form:** mixture

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

**Relevant identified uses Use of the substance/mixture**

Use of the substance/mixture: For further manufacture

**Uses advised against**

No additional information available

**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](mailto:info@biovendor.com)

Website: [www.biovendor.com](http://www.biovendor.com)

**1.4 Emergency telephone number**

European Chemicals Agency. National helpdesks contact details

<https://echa.europa.eu/support/helpdesks>

Links to Poison Centers and Clinical Toxicologists all over the World:

<https://www.eapcct.org/index.php?page=links>

<b>SECTION 2</b>	<b>HAZARDS IDENTIFICATION</b>
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**2.1 Classification of the substance or mixture**

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin sensitisation, Category 1 H317

Full text of H statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

**2.2 Label elements**

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



GHS07

**Signal word (CLP):** Warning

**Hazardous ingredients:**

Reaction mass of: 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H isothiazol-3-one [EC no. 220-239-6] (3:1); 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]

**Hazard statements:**

H317 May cause an allergic skin reaction

**Precautionary statements:**

P261 Avoid breathing mist, vapours

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

P280 Wear eye protection, protective gloves, protective clothing

P302+P352 IF ON SKIN: Wash with plenty of soap and water

P321 Specific treatment (see supplemental first aid instruction on this label)

P333+P313 If skin irritation or rash occurs: Get medical advice/attention

P362+P364 Take off contaminated clothing and wash it before reuse

P501 Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

**EUH-statements:**

EUH210 Safety data sheet available on request

EUH208 Contains CMIT/MIT. May produce an allergic reaction

**2.3 Other hazards**

Other hazards not contributing to the classification: None under normal conditions.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**
**3.1 Substance**

Not applicable

**3.2 Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
CMIT/MIT: Mixture, 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	0.0024	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 3 (Inhalation), H330 Eye Dam. 1, H318
2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	(CAS-No.) 2682-20-4 (EC Index-No.) 613-167-00-5	0.0126	Skin Corr. 1C, H314 Skin Sens. 1A, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

**Specific concentration limits:**

Name	Product identifier	Specific concentration limits: CLP
CMIT/MIT: Mixture, 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H-isothiazol-3-one [EC no. 220-239-6] (3:1)	CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5	(C ≥ 0.0015) Skin Sens. 1A, H317 (C ≥ 0.06%) Eye Dam. 1, H318

2-methyl-2H-isothiazol-3-one [EC no. 220-239-6]	(CAS-No.) 2682-20-4 (EC Index-No.) 613-167-00-5	(C >= 0.6) Skin Corr. 1C, H314
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Full text of R- and H-statements: see section 16

## SECTION 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

**First-aid measures general:**

If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person

**First-aid measures after inhalation:** IF INHALED: Remove to fresh air and keep at rest in a comfortable position for breathing

**First-aid measures after skin contact:** IF ON SKIN (or clothing): Remove affected clothing and wash all exposed skin with water for at least 15 minutes. If irritation develops or persists, get medical attention.

**First-aid measures after eye contact:**

IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing if pain, blinking, or irritation develops or persists, get medical attention. Continue rinsing.

**First-aid measures after ingestion:**

IF SWALLOWED: rinse mouth thoroughly. Do not induce vomiting without advice from poison control center. Get medical attention if you feel unwell.

### 4.2 Most important symptoms and effects, both acute and delayed

**Symptoms/effects:**

May cause an allergic skin reaction.

**Symptoms/effects after inhalation:**

May cause respiratory irritation.

**Symptoms/effects after skin contact:**

May cause an allergic skin reaction.

**Symptoms/effects after eye contact:**

Direct contact with eyes is likely to be irritating.

**Symptoms/effects after ingestion:**

May cause gastrointestinal irritation.

### 4.3 Indication of any immediate medical attention and special treatment needed

No additional information available

## SECTION 5 FIREFIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

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

**Fire hazard:**

No data available.

**Explosion hazard:**

No data available.

### 5.3 Advice for firefighters

**Firefighting instructions:**

Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical  
Do not dispose of fire-fighting water in the environment.

**Protection during firefighting:**

Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipment, and emergency procedures**

General measures: Evacuate area. Keep upwind. Ventilate area. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

**6.1.1 For non-emergency personnel**

Protective equipment: Wear Protective equipment as described in Section 8.

Emergency procedures: Evacuate unnecessary personnel.

**6.1.2 For emergency responders**

Protective equipment: Wear suitable protective clothing, gloves and eye or face protection. Approved supplied-air respirator, in case of emergency.

**6.2 Environmental precautions**

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

**6.3 Methods and material for containment and cleaning up****For containment:**

Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for cleaning up**

Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Wash spill area thoroughly with plenty of soap and water.

**6.4 Reference to other sections**

No additional information available

**SECTION 7 HANDLING AND STORAGE****7.1 Precautions for safe handling**

Precautions for safe handling: Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Keep away from sources of ignition - No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Storage conditions: Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Avoid elevated temperatures.

Storage temperature: Refrigerated or room temperature

**7.3 Specific end use(s)**

No additional information available

### SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

#### 8.1 Control parameters

<b>Mixture</b> , 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H -isothiazol-3-one [EC no. 220-239-6] (3:1) <b>(CAS-No. 55965-84-9)</b>		
Germany	TRGS 900 Occupational exposure limit value (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> inhalable fraction
Germany	TRGS 900 Limitation of exposure peaks (mg/m <sup>3</sup> )	0.4 mg/m <sup>3</sup> inhalable fraction

#### 8.2 Exposure controls

##### 8.2.1 Appropriate engineering controls:

Provide adequate general and local exhaust ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Use explosion-proof equipment with flammable materials. Ensure adequate ventilation, especially in confined areas.

##### 8.2.2 Individual protection measures, such as personal protective equipment

Gloves. Protective goggles. Protective clothing.

##### a) Eye protection:



Wear eye protection, including chemical splash goggles and a face shield when possibility exists for eye contact due to spraying liquid or airborne particles. EN 166.

##### b) Skin protection



##### Body protection:

Wear long sleeves, and chemically impervious PPE/coveralls to minimize bodily exposure



##### Hand protection:

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM

F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

##### c) Respiratory protection:



Use NIOSH (or other equivalent national standard) -approved dust/particulate respirator. Where vapor, mist, or dust exceed PELs or other applicable OELs, use NIOSH-approved respiratory protective equipment. EN 250.

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

Physical state:	Liquid
Appearance:	Clear.
Colour:	Amber.
Odour:	None.
Odour threshold:	No data available
pH:	Neutral
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	100 °C
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	No data available
Vapor pressure:	No data available
Relative vapor density at 20 °C:	No data available
Relative density:	No data available
Solubility:	Water: Complete
Log Pow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	Product is not explosive.
Oxidising properties:	Not an Oxidizer.
Explosive limits:	No data available

**9.2 Other information**

No additional information available

**SECTION 10 STABILITY AND REACTIVITY****10.1 Reactivity**

No dangerous reactions known under normal conditions of use.

**10.2 Chemical stability**

Stable under recommended handling and storage conditions (see section 7).

**10.3 Possibility of hazardous reactions**

None known.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

Thermal decomposition generates: Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Other toxic fumes.

**SECTION 11 TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**

Acute toxicity:	Not classified
Skin corrosion/irritation:	Not classified pH: Neutral
Serious eye damage/irritation:	Not classified pH: Neutral
Respiratory or skin sensitisation:	May cause an allergic skin reaction.
Germ cell mutagenicity:	Not classified
Carcinogenicity:	Not classified
Reproductive toxicity:	Not classified
STOT-single exposure:	Not classified
STOT-repeated exposure:	Not classified
Aspiration hazard:	Not classified

**SECTION 12 ECOLOGICAL INFORMATION**
**12.1 Toxicity**

**Ecology - general:** No data available.

<b>Mixture</b> , 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1) ( <b>CAS-No. 55965-84-9</b> )	
LC50 fish 1	0.19 mg/l Salmo Gairdneri
EC50 Daphnia 1	0.028 mg/l Crassostrea virg.
EC50 72h algae (1)	0.018 mg/l Selenastrum cap.

**12.2 Persistence and degradability**

<b>Mixture</b> , 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1) ( <b>CAS-No. 55965-84-9</b> )	
Persistence and degradability	Not rapidly degradable

**12.3 Bioaccumulative potential**

<b>Mixture</b> , 5-chloro-2-methyl-4-isothiazolin-3-one [EC no. 247-500-7]; and 2-methyl-2H - isothiazol-3-one [EC no. 220-239-6] (3:1) ( <b>CAS-No. 55965-84-9</b> )	
Log Kow	> 5 Significant bioaccumulation

**12.4 Mobility in soil**

No additional information available

**12.5 Results of PBT and vPvB assessment**

No additional information available

**12.6 Other adverse effects**

No additional information available

**SECTION 13 DISPOSAL CONSIDERATIONS**
**13.1 Disposal methods**

**Waste treatment methods:** Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.



**Waste disposal recommendations:**

Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

**SECTION 14 TRANSPORT INFORMATION****14.1 UN number**

Not hazardous for transport

**14.2 UN proper shipping name**

**Proper Shipping Name (ADR):** Not applicable

**Proper Shipping Name (IMDG):** Not applicable

**Proper Shipping Name (IATA):** Not applicable

**Proper Shipping Name (ADN):** Not applicable

**Proper Shipping Name (RID):** Not applicable

**14.3 Transport hazard class(es)**

**ADR** Transport hazard class(es) (ADR): Not applicable

**IMDG** Transport hazard class(es) (IMDG): Not applicable

**IATA** Transport hazard class(es) (IATA): Not applicable

**ADN** Transport hazard class(es) (ADN): Not applicable

**RID** Transport hazard class(es) (RID): Not applicable

**14.4 Packaging group**

Packing group (ADR) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

Packing group (ADN) : Not applicable

Packing group (RID) : Not applicable

**14.5 Environmental hazards**

Dangerous for the environment: No

Marine pollutant : No

Other information: No supplementary information available

**14.6 Special precautions for user****Overland transport**

Not applicable

**Transport by sea**

Not applicable

**Air transport**

Not applicable

**Inland waterway transport**

Carriage prohibited (ADN): No

Not subject to AND: No

**Rail transport**

Carriage prohibited (RID): No

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**SECTION 15 REGULATORY INFORMATION****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1 EU-Regulations**

Contains no substances with Annex XVII restrictions StabilZyme® HRP Conjugate Stabilizer is not on the REACH Candidate List Contains no substance on the REACH Candidate List

Contains no REACH Annex XIV substances.

**15.1.2 National regulations**

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory

**Germany**

VwVwS Annex reference: Water hazard class (WGK) 3, severe hazard to waters (Classification according to VwVwS, Annex 4)

12th Ordinance Implementing the Federal Immission : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)  
Control Act - 12.BImSchV

**15.2 Chemical Safety Assessment**

No additional information available

**SECTION 16 OTHER INFORMATION****Warning:**

The safety data sheet contains data needed for securing safety and health protection during work and environ-mental protection. The stated data correspond to the current state of knowledge and experience and is in accord-ance with valid legal regulations. It cannot be deemed as a guarantee of the properties, suitability, and usefulness of the product for specific application and therefore no contractual legal relationships are hereby created.

The safety data sheet is the property of the physical or legal entity stated in Section 1 and is protected by copy-right. All copying, distribution or sales without the consent of the owner is forbidden.

**Relevant phrases:**

H301 Toxic if swallowed  
H310 Toxic in contact with skin  
H314 Causes severe skin burns and eye damage  
H317 May cause an allergic skin reaction  
H318 Causes serious eye damage  
H330 Fatal if inhaled  
H400 Very toxic to aquatic life  
H410 Very toxic to aquatic life with long lasting effects  
EUH208 Contains . May produce an allergic reaction  
EUH210 Safety data sheet available on request

**Training hints:**

Pursuant to article No 35 of the European Parliament and Council Regulation (ES) No 1907/2006, the employer must allow employees or their representatives access to information from the safety data sheet of the substance or preparation, which the employees use or to the effects of which they may be exposed during their work.

Physical entities performed individual activities within the scope of handling of this hazardous product are trained and regularly, at least once a year, retrained.

Product information sources: safety data sheet, product or technical information, safety instructions, and other ex-pert documents for the product, issued by the supplier.

**Recommended restriction of use:**

The product is designed only for professional purposes. It must not be used in households. The product can only be handled by a person older than 18 years, who is sufficiently informed about the work procedures, hazardous properties of the product, and also about the necessary safety measures.

The product is to be used only for the purpose, for which it is designed. It is up to the user's responsibility to adhere to the product usage conditions and to respect the safety instructions for health and environmental protection.

Further information: This product must be stored, sold, and used in accordance with valid hygienic regulations.

Classification according to Regulation (EC) No 1272/2008:	
Skin Sens. 1	Calculation method

**First issue of SDS:** 09.12.2022

Documents used to prepare SDS:

The original documents provided by the supplier or manufacturer related to the product (mixture), eventually to individual substances contained.

**Sulphuric Acid < 5 %****SECTION 1 IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING****1.1 Product identifier**

**Trade name:** Sulphuric Acid < 5 %

**Other name:** 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](mailto:info@biovendor.com)

Website: [www.biovendor.com](http://www.biovendor.com)

**1.4 Emergency telephone number**

European Chemicals Agency. National helpdesks contact details

<https://echa.europa.eu/support/helpdesks>

Links to Poison Centers and Clinical Toxicologists all over the World:

<https://www.eapcct.org/index.php?page=links>

**SECTION 2 HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

**Classification according to Regulation 1272/2008/EC:**

Corrosive to metals, Met. Corr. 1, H290

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). (USA)

**2.2 Label elements**

**Hazard pictogram:**



GHS05

**Signal word:** Warning

**Hazard statement:**

H290 May be corrosive to metals.

**Precautionary statement:**

not assigned

**2.2.1 Labelling of packages where the contents does not exceed 125 ml:**

**Hazard pictogram:**

none

**Signal word:**

none

**Sulphuric Acid < 5 %****Hazard statement:**

none

**Precautionary statement:**

none

**2.3 Other hazards**

This 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**

Ingredient	Conc. in w/w %	EINECS	CAS-Nr.	Index-Nr.
Sulphuric acid, 98 %	< 5	231-639-5	7664-93-9	016-020-00-8
REACH RN: 01-2119458838-20-xxxx				

**Classification according to regulation 1272/2008/EC:**

Met. Corr. 1, H290

Skin Corr. 1A, H314

Eye Dam. 1, H318

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

For full text of and 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 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.

**Sulphuric Acid < 5 %****SECTION 5    FIREFIGHTING 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.

**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, SO<sub>3</sub>: long term 1 mg/m<sup>3</sup>, short term 2 mg/m<sup>3</sup>, note I (causes irritation of mucous membranes (eyes, respiratory tract) and skin irritation).

**Sulphuric Acid < 5 %**
**8.2 Exposure controls**
**8.2.1 Appropriate engineering controls**

Use in a 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:**

**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.


**Body protection:**

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.

<b>SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES</b>
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**9.1 Information on basic physical and chemical properties**

Physical state:	Liquid
Colour:	Colourless
Odour:	Odourless
Odour threshold:	Not determined
pH:	0.8
Melting point/freezing point (°C):	No data available

**Sulphuric Acid < 5 %**

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:	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.

**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 hazard classes as defined in Regulation (EC) No 1272/2008**

<b>Acute toxicity:</b>	The classification criteria are not met.
Sulphuric acid:	
LD50, oral, rat:	3140 mg/kg
LD50, inhalation, rat:	510 mg/m <sup>3</sup> /2 h
Skin corrosion/ irritation:	The classification criteria are not met. May cause mild irritation.
Serious eye damage/ irritation:	The classification criteria are not met. May cause mild irritation.
Respiratory or skin sensitisation:	The classification criteria are not met.
Germ cell mutagenicity:	The classification criteria are not met.
Carcinogenicity:	The classification criteria are not met.
Reproductive toxicity:	The classification criteria are not met.
STOT – single exposure:	The classification criteria are not met.
STOT – repeated exposure:	The classification criteria are not met.



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Aspiration hazard:  
 Reproduction toxicity:

The classification criteria are not met.  
 No data available.

**11.2 Information on other hazards**

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.

<b>SECTION 12 ECOLOGICAL INFORMATION</b>
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**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 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**

Does not meet the criteria for PBT and vPvB.

**12.6 Endocrine disrupting properties**

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.

**12.7 Other adverse effects**

No data available.

<b>SECTION 13 DISPOSAL CONSIDERATIONS</b>
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**13.1 Waste treatment methods**

Dispose of in accordance with applicable national regulations, 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

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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 or ID number**

3264.

**14.2 UN proper shipping name**

CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (sulphuric acid).

**14.3 Transport hazard class**

8.

**14.4 Packing group**

III.

**14.5 Environmental hazards**

No.

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

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. 878/2020.

**U.S. Federal regulations:**

TSCA 8(a) CDR Exempt/Partial exemption: Not determined  
United States inventory (TSCA 8b): All components are listed or exempted.  
Clean Water Act (CWA) 311: sulphuric acid.

**15.2 Chemical safety assessment**

Chemical safety assessment has not been carried out.

**SECTION 16 OTHER INFORMATION****Warning:**

The safety data sheet contains data needed for securing safety and health protection during work and environmental protection. The stated data correspond to the current state of knowledge and

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experience and is in accordance with valid legal regulations. It cannot be deemed as a guarantee of the properties, suitability, and usefulness of the product for specific application and therefore no contractual legal relationships are hereby created.

The safety data sheet is the property of the physical or legal entity stated in Section 1 and is protected by copy-right. All copying, distribution or sales without the consent of the owner is forbidden.

**Relevant phrases:**

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

**Hazardous Material Information System (U.S.A.)**

Health	1
Chronic Health Hazard	
Flammability	0
Physical Hazards	0

**National Fire Protection Association (U.S.A.)**

Health	1
Flammability	0
Instability/Reactivity	0
Special	

**Training hints:**

Pursuant to article No 35 of the European Parliament and Council Regulation (ES) No 1907/2006, the employer must allow employees or their representatives access to information from the safety data sheet of the substance or preparation, which the employees use or to the effects of which they may be exposed during their work.

Physical entities performed individual activities within the scope of handling of this hazardous product are trained and regularly, at least once a year, retrained.

Product information sources: safety data sheet, product or technical information, safety instructions, and other expert documents for the product, issued by the supplier.

**Recommended restriction of use:**

The product is designed only for professional purposes. It must not be used in households. The product can only be handled by a person older than 18 years, who is sufficiently informed about the work procedures, hazardous properties of the product, and also about the necessary safety measures.

The product is to be used only for the purpose, for which it is designed. It is up to the user's responsibility to adhere to the product usage conditions and to respect the safety instructions for health and environmental protection.

Further information: This product must be stored, sold, and used in accordance with valid hygienic regulations.

**Date of issue:** 30.5.2022

**Revision notes:** Commission Regulation (EU) No. 830/2015 was replaced by Commission Regulation (EU) No. 878/2022. Change of classification of the mixture. Exception for labelling of packaging not exceeding 125 ml, addition of REACH RN of the component, change of section 11 structure, addition of transport information in section 14.