

# DENGUE ELISA IgM CAPTURE

## Safety Data Sheet

according to Regulation (EU) 2015/830  
Date of revision: 17/12/2020. Version: 1



**ELISA KIT** includes several mixtures, which have all been evaluated for classification. This **ELISA KIT** SDS refers exclusively to: **VIRCELL WASH BUFFER (20x)** and **VIRCELL STOP REAGENT** since they are the only hazardous mixtures within the kit, according to Regulation (EC) No. 1272/2008 [CLP].

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

Product form : Mixture  
Product name : **DENGUE ELISA IgM CAPTURE**  
Trade name : **ELISA KIT**  
Product code : **M1018**

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

##### 1.1.1. Relevant identified uses

Industrial/Professional use specifications : For professional use only.  
Use of the substance/mixture : In Vitro Diagnostic use.

##### 1.1.2. Uses advised against

No additional information available.

#### 1.3. Details of the supplier of the safety data sheet

VIRCELL, S.L.  
Parque Tecnológico de la Salud, Avicena 8  
18016 Granada - Spain  
T +34 958 441264 - F +34 958510712  
[customerservice@vircell.com](mailto:customerservice@vircell.com)

#### 1.4. Emergency telephone number

Emergency number: :112 (24 hour service) – applicable to EU countries only.

### SECTION 2: Composition/information on components

Component name	Component classification according to regulations (EC) no. 1272/2008 [CLP]	Kit configuration
VIRCELL STOP REAGENT	H314	1x 15 ml
VIRCELL WASH BUFFER (20x)	H317	1x 50 ml

### SECTION 3: Disclaimer

This document shall be only used and considered as a guideline requiring appropriate and professional chemical handling of this product with caution or under qualified supervision. This product is not intended for purposes alien to those displayed in section 1, unless being informed adequately by written instructions on handling procedures considering this material. This product shall be used in compliance with the Good Laboratory Practice. All potential dangers involved in the interactions of the described product with additional materials and chemicals are not indicated in this form. The user is the solely responsible agent regarding the product's suitability for the intended use, the product's safe use as well as its safe disposal. No warranty or representation, either explicit or implicit, of merchantability, suitable for a specific purpose or of any other nature is made hereunder with respect to the information set forth or to product which the information refers. The displayed information of this SDS comply with Annex II of the Commission Regulation (EU) No 2015/830 of 01 June 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, authorization and Restriction of Chemicals (REACH), and in accordance with ANSI "Standard for Hazardous Industrial Chemicals - Safety Data Sheets – Preparation" (ANSI Z400.1-2004) as recommended by US OSHA.

# DENGUE ELISA IgM CAPTURE

## VIRCELL WASH BUFFER (20x)

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according to Regulation (EU) 2015/830

This SDS refers exclusively to: **VIRCELL WASH BUFFER (20x)**.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product form : Mixture  
Product name : **DENGUE ELISA IgM CAPTURE**  
Trade name : **ELISA KIT (VIRCELL WASH BUFFER (20x))**  
Product code : **M1018**

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

###### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only.  
Use of the substance/mixture : In Vitro Diagnostic use.

###### 1.2.2. Uses advised against

No additional information available.

##### 1.3. Details of the supplier of the safety data sheet

VIRCELL, S.L.  
Parque Tecnológico de la Salud, Avicena 8  
18016 Granada - Spain  
T +34 958-44 12 64 - F +34 958-51 07 12  
[customerservice@vircell.com](mailto:customerservice@vircell.com)

##### 1.4. Emergency telephone number

Emergency number : 112 (24 hour service) – applicable to EU countries only.

#### SECTION 2: Hazards identification

##### 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 (CLP) :



GHS07

Signal word (CLP) : Warning.  
Hazardous ingredients : Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1).  
Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
Precautionary statements (CLP) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P302+P352 - if on skin: Wash with plenty of water.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.

##### 2.3. Other hazards

other hazards which do not result in classification : Reagents should be considered as potentially infectious and handled accordingly.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

#### SECTION 3: Composition/information on ingredients

##### 3.1. Substances

Not applicable.

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#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5 (REACH-no) Not available	0.003	Acute Tox. 3 (Oral), H301 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation), H330 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

#### Specific concentration limits:

Name	Product identifier	Specific concentration limits
Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1)	(CAS-No.) 55965-84-9 (EC Index-No.) 613-167-00-5 (REACH-no) Not available	(0.0015 =<C < 100) Skin Sens. 1A, H317 (0.06 =<C < 0.6) Skin Irrit. 2, H315 (0.06 =<C < 0.6) Eye Irrit. 2, H319 (0.6 =<C < 100) Skin Corr. 1C, H314 (0.6 =<C < 100) Eye Dam. 1, H318

Full text of H-statements: see section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: After contact with skin: Take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: If swallowed: Rinse mouth with water (only if the person is conscious). Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects	: Not expected to present a significant hazard under anticipated conditions of normal use.
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##### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

Suitable extinguishing media	: Water, carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam.
Unsuitable extinguishing media	: No data available.

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

Fire hazard	: No data available.
Explosion hazard	: No data available.
Hazardous decomposition products in case of fire	: No data available.

##### 5.3. Advice for firefighters

Precautionary measures fire	: Evacuate the personnel away from the fumes.
Protective equipment for firefighters	: Extra personal protection: complete protective clothing including self-contained breathing apparatus.
Other information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### 6.1.1. For non-emergency personnel

Emergency procedures	: Alert emergency personnel.
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###### 6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Evacuate unnecessary personnel. Ensure adequate ventilation, especially in confined areas.

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#### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

#### 6.3. Methods and material for containment and cleaning up

For containment : Stop leak if safe to do so.  
Methods for cleaning up : Ventilate affected area. Wear personal protection equipment. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal.  
Other information : Do not allow uncontrolled discharge of product into the environment.

#### 6.4. Reference to other sections

For disposal of residues refer to section 13: Disposal considerations. For further information refer to section 8: Exposure controls/personal protection. See Section 1 for emergency contact information.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Provide adequate ventilation. Avoid formation of vapours. Do not breathe gas, fumes, vapour or spray.  
Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool.  
Storage temperature : 2 - 8 °C.  
Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.  
Special rules on packaging : Keep only in original container.

#### 7.3. Specific end use(s)

In Vitro Diagnostic use. Use the product in compliance with the Good Laboratory Practice.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1) (55965-84-9)	
<b>Austria - Occupational Exposure Limits</b>	
Local name	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-di-hydroisothiazol-3-on (Gemisch im Verhältnis 3:1)
MAK (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (5-Chloro-2-methyl-2,3-dihydroisothiazol-3-one and 2-methyl-2,3-dihydroisothiazol-3-one mixture in ratio 3:1)
Remark (AT)	Sh,H
OEL chemical category (AT)	Skin sensitizer
Regulatory reference	BGBl. II Nr. 186/2015
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
Local name	5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on Gemisch im Verhältnis 3:1
Occupational exposure limit value (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle et 2,3-dihydro-isothiazol-3-one de 2-méthyle [2,3-Dihydro-isothiazol-3-one de 5-chloro-2-méthyle, 2,3-Dihydro-isothiazol-3-one de 2-méthyle] / 5-Chlor-2-methyl-2,3-dihydro-isothiazol-3-on und 2-Methyl-2,3-dihydroisothiazol-3-on [2-Methyl-2,3-dihydroisothiazol-3-on, 5-Chlor-2-methyl-2,3-dihydroisothiazol-3-on]
MAK (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (i) / (e)
KZGW (mg/m <sup>3</sup> )	0.4 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	VRS, Skin, Eye / OAW
Notation	S, SSc / S, SSc
Regulatory reference	www.suva.ch, 01.07.2019

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Provide adequate ventilation.

##### Personal protective equipment:

Gloves. Protective goggles. Protective clothing.

##### Hand protection:

Wear suitable gloves tested to EN 374. FKM (fluoro rubber). Breakthrough time : < 1 h. Layer thickness : 0.4 mm.

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#### Eye protection:

Chemical goggles or safety glasses. EN 166.

#### Skin and body protection:

Use chemically protective clothing. Lab coat.

#### Respiratory protection:

Not required for normal conditions of use.

#### Personal protective equipment symbol(s):



#### Environmental exposure controls:

Do not allow into drains or water courses.

#### Other information:

Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: No data available.
Colour	: No data available.
Odour	: No data available.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: No data available.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Solubility	: Completely soluble.
Log Pow	: No data available.
Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: Not explosive.
Oxidising properties	: Not oxidising.
Explosive limits	: No data available.

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No polymerization. No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

No additional information available.

#### 10.5. Incompatible materials

Strong oxidizing agents. Reducing agents. Amines. Mercaptan.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Nitrogen oxides. Sulphur oxides.

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#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.
Skin corrosion/irritation	: Not classified.
Serious eye damage/irritation	: Not classified.
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

Hazardous to the aquatic environment, short-term (acute)	: Not classified.
Hazardous to the aquatic environment, long-term (chronic)	: Not classified.

##### 12.2. Persistence and degradability

No additional information available.

##### 12.3. Bioaccumulative potential

No additional information available.

##### 12.4. Mobility in soil

No additional information available.

##### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

##### 12.6. Other adverse effects

No additional information available.

#### SECTION 13: Disposal considerations

##### 13.1. Waste treatment methods

Waste treatment methods	: Consult the appropriate local waste disposal expert about waste disposal.
Product/Packaging disposal recommendations	: Handle uncleaned empty containers as full ones.

#### SECTION 14: Transport information

In accordance with ADN / ADR / IATA / IMDG / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.2. UN proper shipping name</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.3. Transport hazard class(es)</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.4. Packing group</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
<b>14.5. Environmental hazards</b>				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

No supplementary information available.

##### 14.6. Special precautions for user

###### Overland transport

Not regulated.

###### Transport by sea

Not regulated.

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#### Air transport

Not regulated.

#### Inland waterway transport

Not regulated.

#### Rail transport

Not regulated.

#### 14.7. Transport in bulk according to Annex II of Marpol 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 REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

##### 15.1.2. National regulations

###### Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

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

###### Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed.

SZW-lijst van mutagene stoffen : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed.

###### Denmark

Danish National Regulations : Pregnant/breastfeeding women working with the product must not be in direct contact with the product.

#### 15.2. Chemical safety assessment

No additional information available.

### SECTION 16: Other information

#### Abbreviations and acronyms:

SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
CAS	CAS (Chemical Abstracts Service) number
CSR	CSR - Chemical Safety Report

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## VIRCELL WASH BUFFER (20x)

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according to Regulation (EU) 2015/830



#### Other information

: This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. It is the user's responsibility to take mentioned precaution measures and ensure that this information is complete and sufficient for the use of this product. This document shall be only used and considered as a guideline requiring appropriate and professional chemical handling of this product with caution or under qualified supervision. This product is not intended for purposes alien to those displayed in section 1, unless being informed adequately by written instructions on handling procedures considering this material. This product shall be used in compliance with the Good Laboratory Practice. All potential dangers involved in the interactions of the described product with additional materials and chemicals are not indicated in this form. The user is the solely responsible agent regarding the product's suitability for the intended use, the product's safe use as well as its safe disposal. No warranty or representation, either explicit or implicit, of merchantability, suitable for a specific purpose or of any other nature is made hereunder with respect to the information set forth or to product which the information refers.

Full text of H- and EUH-statements:		
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2	
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1	
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1	
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1C	Skin corrosion/irritation, Category 1C	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
Skin Sens. 1A	Skin sensitisation, category 1A	
H301	Toxic if swallowed.	
H310	Fatal in contact with skin.	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H330	Fatal if inhaled.	
H400	Very toxic to aquatic life.	
H410	Very toxic to aquatic life with long lasting effects.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Sens. 1	H317	Calculation method

#### SDS EU (REACH Annex II)

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



# DENGUE ELISA IgM CAPTURE

## VIRCELL STOP REAGENT

### Safety Data Sheet

according to Regulation (EU) 2015/830

This SDS refers exclusively to: **VIRCELL STOP REAGENT**.

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking

##### 1.1. Product identifier

Product form : Mixture  
Product name : **DENGUE ELISA IgM CAPTURE**  
Trade name : **ELISA KIT (VIRCELL STOP REAGENT)**  
Product code : **M1018**

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

###### 1.2.1. Relevant identified uses

Industrial/Professional use spec : For professional use only.  
Use of the substance/mixture : In Vitro Diagnostic use.

###### 1.2.2. Uses advised against

No additional information available.

##### 1.3. Details of the supplier of the safety data sheet

VIRCELL, S.L.  
Parque Tecnológico de la Salud, Avicena 8  
18016 Granada - Spain  
T +34 958-44 12 64 - F +34 958-51 07 12  
[customerservice@vircell.com](mailto:customerservice@vircell.com)

##### 1.4. Emergency telephone number

Emergency number : 112 (24 hour service) – applicable to EU countries only.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1A H314

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 (CLP) :



GHS05

Signal word (CLP) : Danger.  
Hazardous ingredients : Sulphuric acid.  
Hazard statements (CLP) : H314 - Causes severe skin burns and eye damage.  
Precautionary statements (CLP) : P280 - Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P303+P361+P353 - If on skin or hair: Take off immediately all contaminated clothing. Rinse skin with water or shower.  
P310 - Immediately call a doctor, a POISON CENTER.  
P363 - Wash contaminated clothing before reuse.

##### 2.3. Other hazards

other hazards which do not result in classification : Reagents should be considered as potentially infectious and handled accordingly.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

#### SECTION 3: Composition/information on ingredients

##### 3.1. Substances

Not applicable.

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#### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) not available	2 - 5	Skin Corr. 1A, H314
<b>Specific concentration limits:</b>			
Name	Product identifier	Specific concentration limits	
Sulphuric acid	(CAS-No.) 7664-93-9 (EC-No.) 231-639-5 (EC Index-No.) 016-020-00-8 (REACH-no) not available	(5 =<C < 15) Eye Irrit. 2, H319 (5 =<C < 15) Skin Irrit. 2, H315 (15 =<C < 100) Skin Corr. 1A, H314	

Full text of H-statements: see section 16.

#### SECTION 4: First aid measures

##### 4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell. If medical advice is needed, have product container or label at hand.
First-aid measures after inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. In case of breathing difficulties administer oxygen. If you feel unwell, seek medical advice.
First-aid measures after skin contact	: After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention if ill effect or irritation develops.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor/medical service if you feel unwell.

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

Symptoms/effects after skin contact	: Causes severe skin burns and eye damage.
Symptoms/effects after eye contact	: Risk of damage to eyes.

##### 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	: Water, carbon dioxide (CO <sub>2</sub> ), dry chemical powder, foam.
Unsuitable extinguishing media	: No data available.

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

Fire hazard	: Not flammable.
Explosion hazard	: Product is not explosive.
Hazardous decomposition products in case of fire	: No data available.

##### 5.3. Advice for firefighters

Precautionary measures fire	: Evacuate the personnel away from the fumes.
Protective equipment for firefighters	: Extra personal protection: complete protective clothing including self-contained breathing apparatus.
Other information	: Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

#### SECTION 6: Accidental release measures

##### 6.1. Personal precautions, protective equipment and emergency procedures

###### 6.1.1. For non-emergency personnel

Emergency procedures	: Alert emergency personnel.
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###### 6.1.2. For emergency responders

Protective equipment	: Wear suitable protective clothing, gloves and eye/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray.
Emergency procedures	: Evacuate unnecessary personnel. Ensure adequate ventilation, especially in confined areas.

##### 6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

##### 6.3. Methods and material for containment and cleaning up

For containment	: Stop leak if safe to do so.
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Methods for cleaning up : Ventilate affected area. Wear personal protection equipment. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Wash with plenty of soap and water. Consult the appropriate authorities about waste disposal.

Other information : Do not allow uncontrolled discharge of product into the environment.

#### 6.4. Reference to other sections

For disposal of residues refer to section 13: Disposal considerations. For further information refer to section 8: Exposure controls/personal protection. See Section 1 for emergency contact information.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid contact with skin and eyes. Provide adequate ventilation. Avoid formation of vapours. Do not breathe the gas, fumes, vapour or spray.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### 7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep container tightly closed. Store in a well-ventilated place. Keep cool.

Storage temperature : 2 - 30 °C.

Heat and ignition sources : Keep away from open flames, hot surfaces and sources of ignition.

Special rules on packaging : Keep only in original container.

#### 7.3. Specific end use(s)

In Vitro Diagnostic use. Use the product in compliance with the Good Laboratory Practice.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Sulphuric acid (7664-93-9)

##### EU - Occupational Exposure Limits

Local name	Sulphuric acid (mist)
IOELV TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Regulatory reference	Commission Directive 2009/161/EU

##### Austria - Occupational Exposure Limits

Local name	Schwefelsäure
MAK (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup>
MAK Short time value (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup>
Regulatory reference	BGBl. II Nr. 186/2015

##### Belgium - Occupational Exposure Limits

Local name	Acide sulfurique # Zwavelzuur
Limit value (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (Mist)
Remark (BE)	C: la mention "C" signifie que l'agent en question relève du champ d'application du titre 2 relatif aux agents cancérigènes, mutagènes et reprotoïques du livre VI du code de bien-être au travail. [English: The word "C" means that the agent in question falls within the scope of Title 2 on carcinogens, mutagens and reproductions in Book VI of the Code of Well-being at Work].  Lors du choix d'une méthode appropriée de suivi de l'exposition, il convient de tenir compte des limitations et interférences potentielles qui peuvent survenir en présence d'autres composés du soufre. [English: When choosing an appropriate exposure monitoring method, the potential limitations and interferences that may occur in the presence of other sulfur compounds should be taken into account].
Regulatory reference	Royal Decree 02/09/2018

##### Bulgaria - Occupational Exposure Limits

Local name	Сярна киселина
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (aerosols)

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<b>Sulphuric acid (7664-93-9)</b>	
Notes	<p>Химични агенти, за които са определени гранични стойности във въздуха на работната среда за Европейската общност. [English: Chemical agents for which a limit value for air is set in the working environment for the European Community].</p> <p>(2) При избора на подходящ метод за наблюдение на експозицията следва да се вземат под внимание потенциалните ограничения и взаимодействия, които могат да възникнат в присъствието на други серни съединения; [English: In selecting of the appropriate method for monitoring of the exposure should be taken into account the potential constraints and the interactions which occur in the presence of other sulfur compounds].</p> <p>3) Аерозолът се определя като вдишвана част. [English: The aerosol is defined as the respirable fraction].</p>
Regulatory reference	Decree No. 13 of 30 December 2003 on workers' protection from the risks relating to exposure to chemical agents at work (amend. SG 73/03, September 4, 2018).
<b>Croatia - Occupational Exposure Limits</b>	
Local name	Sumporna kiselina
Exposure limit value GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Remark (HR)	Directive 2009/161/EU
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN 91/2018).
<b>Czech Republic - Occupational Exposure Limits</b>	
Local name	Kyselina sírová
PEL (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> (Sulphuric acid, as SO <sub>3</sub> , thoracic fraction) 0.05 mg/m <sup>3</sup> (Concentrated acid mist, thoracic fraction)
NPK-P (mg/m <sup>3</sup> )	2 mg/m <sup>3</sup> (Sulphuric acid, as SO <sub>3</sub> )
Remark (CZ)	<p>I (dráždí sliznice (oči, dýchací cesty) resp. kůži). [English: Irritating to mucous membranes (eyes, respiratory tract)].</p> <p>(1) Při výběru vhodné metody kontroly expozice by se mělo přihlídnout k možným omezením a interferencím, k nimž může dojít za přítomnosti jiných sloučenin síry. [English: When selecting a suitable method of exposure control should be taken into account a possible limitation and interference that may occur in the presence of other sulfur compounds].</p> <p>(2) Mlha je definována jako torakální frakce. [English: Fog is defined as the thoracic fraction].</p>
Regulatory reference	Decree 361/2007 Sb., Annex 2, Part A, as amended through 246/2018 Sb., October 29, 2018.
<b>Denmark - Occupational Exposure Limits</b>	
Local name	Svovlsyre
Grænseværdie (langvarig) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Regulatory reference	BEK No. 655 of 31/05/2018
<b>Estonia - Occupational Exposure Limits</b>	
Local name	Väävelhape, udu
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Remark (ET)	<p>28 (Kokkupuute seiremeetodi valimisel tuleb arvestada võimalikke piiranguid ja häireid, mis võivad tekkida väävlühendite esinemise korral). [English: Exposure monitoring method needs to take into account the limitations and potential problems that may occur in the presence of sulfur compounds].</p> <p>29 (Udu määratletakse ülemistesse hingamisteedesse jõudvate osakeste fraktsioonina). [English: Mist is defined as particle fraction reaching the upper respiratory tract].</p>
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293 (RT I, 30.11.2011, 5).

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<b>Sulphuric acid (7664-93-9)</b>	
<b>Finland - Occupational Exposure Limits</b>	
Local name	Rikkihappo
HTP-arvo (8h) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
HTP-arvo (15 min)	0.1 mg/m <sup>3</sup>
Remark (FI)	Thoracic fraction
Regulatory reference	HTP-ARVOT 2018
<b>France - Occupational Exposure Limits</b>	
Local name	Acide sulfurique
VME (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Thoracic fraction)
VLE (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Remark (FR)	VME réglementaire indicative; la VLE n'est pas réglementaire et provient d'une circulaire du ministère chargé du travail. [English: The VLE is not mandatory and comes from a circular of the minister of labor].
Regulatory reference	Decree of June 30, 2004 amended and circular of the Ministry of Labor (ref.: INRS ED 984, 2016).
<b>Germany - Occupational Exposure Limits (TRGS 900)</b>	
TRGS 900 Local name	Schwefelsäure
Occupational exposure limit value (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (E)
Limitation of exposure peaks	1(I)
TRGS 900 Remark	DFG;EU;Y
TRGS 900 Regulatory reference	TRGS900
<b>Gibraltar - Occupational Exposure Limits</b>	
Name of agent	Sulphuric acid
Eight hours mg/m <sup>3</sup>	0,05 mg/m <sup>3</sup> The mist is defined as the thoracic fraction
Notation	When selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds.
Regulatory reference	Factories (Control of Chemical Agents at Work) Regulations 2003 (LN. 2018/181).
<b>Greece - Occupational Exposure Limits</b>	
Local name	Θειικό οξύ
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Regulatory reference	Presidential Decree 12/2012.
<b>Hungary - Occupational Exposure Limits</b>	
Local name	KÉNSAV
AK-érték	0.05 mg/m <sup>3</sup> (Thoracic fraction)
Remark (HU)	m (maró hatású anyag, amely felmarja a bőrt, nyálkahártyát, szemet vagy mindhármat). [English: corrosive substance which corrodes the skin, mucous membranes, eyes or all three].  I. (HELYILEG IRRITÁLÓ ANYAGOK), EU3 (2009/161 /EK irányelvben közölt érték). [English: Locally irritating substances, EU3 (value reported in Directive 2009/161 / CE)].
Regulatory reference	25/2000. (IX. 30.) EüM–SZCSM együttes rendelet a munkahelyek kémiai biztonságáról.
<b>Ireland - Occupational Exposure Limits</b>	
Local name	Sulphuric acid
OEL (8 hours ref) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
OEL (8 hours ref) (ppm)	0.05 ppm
Remark (IE)	IOELV (Indicative Occupational Exposure Limit Values)
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018.

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<b>Sulphuric acid (7664-93-9)</b>	
<b>Italy - Occupational Exposure Limits</b>	
Local name	Acido solforico
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Mist)
Regulatory reference	Annex XXXVIII Legislative Decree n.81, 9 April 2008.
<b>Latvia - Occupational Exposure Limits</b>	
Local name	Sērskābe
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Mist is defined as the thoracic fraction)
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325 (Grozījumi Ministru kabineta 2011.gada 1.februārī noteikumiem Nr.92).
<b>Lithuania - Occupational Exposure Limits</b>	
Local name	Sieros rūgštis
IPRV (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (mist)
TPRV (mg/m <sup>3</sup> )	3 mg/m <sup>3</sup>
Remark (LT)	Renkantis tinkamą poveikio stebėsenos modelį turi būti atsižvelgiama į galimus apribojimus ir trukdžius, galinčius kilti, kai esama kitų sieros junginių. [English: When choosing the proper monitoring of the impact model must take into account potential constraints and bottlenecks that can occur when there are other sulfur compounds].  Rūkas (migla) apibrėžiamas kaip įkvėpiama dalis. [English: Mist is defined as part of the inhalation].
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011 (Nr. V-695/A1-272, 2018-06-12)
<b>Luxembourg - Occupational Exposure Limits</b>	
Local name	Acide sulfurique (Mist)
OEL STEL (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Mist is defined as the thoracic fraction)
Regulatory reference	Mémorial A N° 684 de 2018
<b>Malta - Occupational Exposure Limits</b>	
Local name	Sulphuric acid
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (mist)
Regulatory reference	S.L.424.24 (L.N.57 of 2018).
<b>Netherlands - Occupational Exposure Limits</b>	
Local name	Zwavelzuur
Grenswaarde TGG 8H (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Mist is defined as the thoracic fraction)
Regulatory reference	Arbeidsomstandighedenregeling 2018.
<b>Poland - Occupational Exposure Limits</b>	
Local name	Kwas siarkowy (VI)
NDS (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (thoracic fraction)
Remark (PL)	Frakcja torakalna – frakcja aerozolu wnikająca do dróg oddechowych w obrębie klatki piersiowej, która stwarza zagrożenie dla zdrowia po zdeponowaniu w obszarze tchawiczno-oskrzelowym i obszarze wymiany gazowej. [English: Toracal fraction - an aerosol fraction that enters the respiratory tract which poses a health risk when deposited in the tracheobronchial and gas exchange area].
Regulatory reference	Dz. U. 2018 poz. 1286.
<b>Portugal - Occupational Exposure Limits</b>	
Local name	Ácido sulfúrico
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (thoracic fraction)
Regulatory reference	Norma Portuguesa NP 1796:2014 Decree-Law No. 24/2012.
<b>Romania - Occupational Exposure Limits</b>	
Local name	Acid sulfuric

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<b>Sulphuric acid (7664-93-9)</b>	
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Regulatory reference	Hotărârea nr. 584/2018.
<b>Slovakia - Occupational Exposure Limits</b>	
Local name	Kyselina sírová
NPHV (priemerná) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Mist)
Regulatory reference	Nariadenie vlády č. 33/2018 Z.z.
<b>Slovenia - Occupational Exposure Limits</b>	
Local name	žveplova kislina
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (MIST)
OEL STEL (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Remark (SI)	Y (Snovi, pri katerih ni nevarnosti za zarodek ob upoštevanju mejnih vrednosti in bat vrednosti). [English: A material which presents no risk to an embryo if one observes the maximum allowable level and biological maximum allowable level].
Regulatory reference	Uradni list RS, št. 78/2018 z dne 4.12.2018.
<b>Spain - Occupational Exposure Limits</b>	
Local name	Ácido sulfúrico
VLA-ED (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Mist)
Remark (ES)	<p>az (Al seleccionar un método adecuado de control de la exposición, deben tomarse en consideración posibles limitaciones e interferencias que pueden surgir en presencia de otros compuestos de azufre). [English: When selecting an adequate exposure control method, possible limitations and interferences that could arise in the presence of other sulphur compounds should be considered].</p> <p>VLI (Agente químico para el que la U.E. estableció en su día un valor límite indicativo), s (Esta sustancia tiene prohibida total o parcialmente su comercialización y uso como fitosanitario y/o como biocida. Para una información detallada acerca de las prohibiciones consúltase: Base de datos de productos biocidas: <a href="http://www.mssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.mssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Base de datos de productos fitosanitarios <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a>) [English: The marketing and use of this substance is prohibited as a pesticides and / or biocides. For detailed information on restrictions see: Database of biocides: <a href="http://www.mssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas">http://www.mssi.gob.es/ciudadanos/productos.do?tipo=plaguicidas</a> Update database of pesticides: <a href="http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf">http://www.magrama.gob.es/agricultura/pags/fitos/registro/fichas/pdf/Lista_sa.pdf</a>].</p> <p>D (Véase UNE EN 481: Atmósferas en los puestos de trabajo. Definición de las fracciones por el tamaño de las partículas para la medición de aerosoles). [English: Please refer to UNE EN 481: Workplace atmosphere. Size fraction definitions for measurement of airborne particles].</p>
Regulatory reference	Occupational Exposure Limits for Chemical Substances in Spain for 2019. INSHT.
<b>Sweden - Occupational Exposure Limits</b>	
Local namei	Svavelsyra
nivågränsvärde (NVG) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (inhalable fraction)
kortidsvärde (KTV) (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (inhalable fraction)

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<b>Sulphuric acid (7664-93-9)</b>	
Remark (SE)	<p>C, the substance is carcinogenic.</p> <p>Risk för cancer finns även vid annan exponering än via inandning. För vissa cancerframkallande ämnen som inte har gränsvärden gäller förbud eller tillståndskrav enligt föreskrifterna om kemiska arbetsmiljörisker. [English: There is also a risk of cancer in exposure other than through inhalation. For certain carcinogenic substances that do not have limit values, prohibitions or permit requirements apply in accordance with the regulations on chemical working environment risks].</p> <p>V (Vägledande korttidsgränsvärde ska användas som ett rekommenderat högsta värde som inte bör överskridas). [English: Indicative short-term limit value should be used as a recommended maximum value that should not be exceeded].</p> <p>3 (Med inhalerbar fraktion menas den mängd partiklar, av totalmängden partiklar i luften, som man inandas genom näsa och mun). [English: By inhalable fraction is meant the amount of particles, of the total amount of particles in the air, which are inhaled through the nose and mouth].</p> <p>46 (Aerosoler av svavelsyra har i studier visats vara cancerframkallande). [English: Aerosols of sulfuric acid have been shown to be carcinogenic in studies].</p>
Regulatory reference	Hygieniska gränsvärden (AFS 2018:1).
<b>United Kingdom - Occupational Exposure Limits</b>	
Local name	Sulphuric acid
WEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> mist
Remark (WEL)	The mist is defined as the thoracic fraction
Regulatory reference	EH40/2005 (Third edition, 2018). HSE
<b>Iceland - Occupational Exposure Limits</b>	
Local name	Brennisteinssýra (úði)
OEL (8 hours ref) (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup>
Regulatory reference	Notes and Explanations to Annex I of Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, 2 April 2009.
<b>Norway - Occupational Exposure Limits</b>	
Local name	Svovelsyreaerosol
Grenseverdier (AN) (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> Thoracic fraction
Remark (NO)	<p>K (Kjemikalier som skal betraktes som kreftfremkallende). [English: Chemicals to be considered carcinogenic].</p> <p>E (EU har en veiledende grenseverdi for stoffet). [English: EU has a guideline limit for the substance].</p>
Regulatory reference	FOR-2018-08-21-1255.
<b>Switzerland - Occupational Exposure Limits</b>	
Local name	Acide sulfurique / Schwefelsäure
MAK (mg/m <sup>3</sup> )	0.1 mg/m <sup>3</sup> (i) / (e)
KZGW (mg/m <sup>3</sup> )	0.2 mg/m <sup>3</sup> (i) / (e)
Critical toxicity	Lunge
Notation	C1 <sup>#A</sup> , SS <sub>c</sub> / C1 <sup>#A</sup> , SS <sub>c</sub>
Remark (CH)	IFA, NIOSH, OSHA
Regulatory reference	www.suva.ch, 01.07.2019.
<b>Turkey - Occupational Exposure Limits</b>	
Local name	Sülfürik asit
OEL TWA (mg/m <sup>3</sup> )	0.05 mg/m <sup>3</sup> (Vapor)



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Sulphuric acid (7664-93-9)	
Remark	<p>10) Uygun maruziyet izleme yöntemi seçilirken, ortamda bulunabilecek diğer sülfür bileşiklerinin olası sınırlamaları ve etkileşimleri de dikkate alınacaktır. [English:When selecting the appropriate exposure monitoring method, possible limitations and interactions of other sulfur compounds which may be present in the environment will be taken into account].</p> <p>11) Buhar : Gırtlığı geçen ve havanın iletildiği kanallara (soluk borusu, bifürkasyonlar) ve ciğerin solunum ile ilgili bölgelerine (toraks) nüfuz eden ortalama 10 µm çapındaki solunabilir partiküller olarak tanımlanır. [English: vapor: It is defined as passing through the throat and channels through which air passes (trachea, bifurcation), and penetrating respiratory areas of the lungs (thoracic), average of 10 µm diameter respirable particles].</p>
Regulatory reference	12 Ağustos 2013 Tarihli ve 28733 Sayılı Resmî Gazete.

#### 8.2. Exposure controls

##### Appropriate engineering controls:

Provide adequate ventilation.

##### Personal protective equipment:

Gloves. Protective goggles. Protective clothing.

##### Hand protection:

Wear suitable gloves tested to EN 374. FKM (fluoro rubber). Breakthrough time : < 1 h. Layer thickness : 0.4 mm

##### Eye protection:

Chemical goggles or safety glasses. EN 166.

##### Skin and body protection:

Use chemically protective clothing. Lab coat.

##### Respiratory protection:

Not required for normal conditions of use.

##### Personal protective equipment symbol(s):



##### Environmental exposure controls:

Do not allow into drains or water courses.

##### Other information:

Do not eat, drink or smoke during use.

#### SECTION 9: Physical and chemical properties

##### 9.1. Information on basic physical and chemical properties

Physical state	: Liquid.
Appearance	: No data available.
Colour	: No data available.
Odour	: No data available.
Odour threshold	: No data available.
pH	: No data available.
Relative evaporation rate (butylacetate=1)	: No data available.
Melting point	: No data available.
Freezing point	: No data available.
Boiling point	: No data available.
Flash point	: No data available.
Auto-ignition temperature	: No data available.
Decomposition temperature	: No data available.
Flammability (solid, gas)	: No data available.
Vapour pressure	: No data available.
Relative vapour density at 20 °C	: No data available.
Relative density	: No data available.
Solubility	: Completely soluble.
Log Pow	: No data available.

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Viscosity, kinematic	: No data available.
Viscosity, dynamic	: No data available.
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available.

#### 9.2. Other information

No additional information available.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No polymerization. No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

No additional information available.

#### 10.5. Incompatible materials

Strong oxidizing agents.

#### 10.6. Hazardous decomposition products

Carbon oxides (CO, CO<sub>2</sub>). Sulphur oxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified.
Acute toxicity (dermal)	: Not classified.
Acute toxicity (inhalation)	: Not classified.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Serious eye damage, category 1, implicit.
Respiratory or skin sensitisation	: Not classified.
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

Hazardous to the aquatic environment, short-term (acute) : Not classified.

Hazardous to the aquatic environment, long-term (chronic) : Not classified.

#### 12.2. Persistence and degradability

No additional information available.

#### 12.3. Bioaccumulative potential

No additional information available.

#### 12.4. Mobility in soil

No additional information available.

#### 12.5. Results of PBT and vPvB assessment

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII.

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII.

#### 12.6. Other adverse effects

No additional information available.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Waste treatment methods : Consult the appropriate local waste disposal expert about waste disposal.

Product/Packaging disposal recommendations : Handle uncleaned empty containers as full ones.






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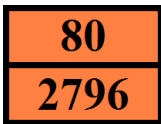
### SECTION 14: Transport information

In accordance with ADN / ADR / IATA / IMDG / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
UN 2796	UN 2796	UN 2796	UN 2796	UN 2796
<b>14.2. UN proper shipping name</b>				
SULPHURIC ACID	SULPHURIC ACID	SULPHURIC ACID	SULPHURIC ACID	SULPHURIC ACID
<b>Transport document description</b>				
UN 2796 SULPHURIC ACID, 8, II, (E)	UN 2796 SULPHURIC ACID, 8, II	UN 2796 SULPHURIC ACID, 8, II	UN 2796 SULPHURIC ACID, 8, II	UN 2796 SULPHURIC ACID, 8, II
<b>14.3. Transport hazard class(es)</b>				
8	8	8	8	8
				
<b>14.4. Packing group</b>				
II	II	II	II	II
<b>14.5. Environmental hazards</b>				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available.				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR)	: C1
Limited quantities (ADR)	: 1I
Excepted quantities (ADR)	: E2
Packing instructions (ADR)	: P001, IBC02
Mixed packing provisions (ADR)	: MP15
Portable tank and bulk container instructions (ADR)	: T8
Portable tank and bulk container special provisions (ADR)	: TP2
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 2
Hazard identification number (Kemler No.)	: 80
Orange plates	: 

Tunnel restriction code (ADR)	: E
EAC code	: 2R

#### Transport by sea

Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC02
IBC special provisions (IMDG)	: B20
Tank instructions (IMDG)	: T8
Tank special provisions (IMDG)	: TP2
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: B

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Properties and observations (IMDG) : Colourless liquid, mixture not exceeding 1.405 relative density. Highly corrosive to most metals. Causes burns to skin, eyes and mucous membranes.

#### Air transport

PCA Excepted quantities (IATA) : E2  
PCA Limited quantities (IATA) : Y840  
PCA limited quantity max net quantity (IATA) : 0.5L  
PCA packing instructions (IATA) : 851  
PCA max net quantity (IATA) : 1L  
CAO packing instructions (IATA) : 855  
CAO max net quantity (IATA) : 30L  
ERG code (IATA) : 8L

#### Inland waterway transport

Classification code (ADN) : C1  
Limited quantities (ADN) : 1 L  
Excepted quantities (ADN) : E2  
Carriage permitted (ADN) : T  
Equipment required (ADN) : PP, EP  
Number of blue cones/lights (ADN) : 0

#### Rail transport

Classification code (RID) : C1  
Limited quantities (RID) : 1L  
Excepted quantities (RID) : E2  
Packing instructions (RID) : P001, IBC02  
Mixed packing provisions (RID) : MP15  
Portable tank and bulk container instructions (RID) : T8  
Portable tank and bulk container special provisions (RID) : TP2  
Tank codes for RID tanks (RID) : L4BN  
Special provisions for RID tanks (RID) : TU42  
Transport category (RID) : 2  
Colis express (express parcels) (RID) : CE6  
Hazard identification number (RID) : 80

#### 14.7. Transport in bulk according to Annex II of Marpol 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 REACH substances with Annex XVII restrictions.

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants.

##### 15.1.2. National regulations

###### Germany

Reference to AwSV : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to AwSV, Annex 1).

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

###### Netherlands

SZW-lijst van kankerverwekkende stoffen : Sulphuric acid is listed.

SZW-lijst van mutagene stoffen : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed.

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed.

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### Denmark

Danish National Regulations

: Young people below the age of 18 years are not allowed to use the product.

### 15.2. Chemical safety assessment

No additional information available.

### SECTION 16: Other information

Abbreviations and acronyms:	
SDS	Safety Data Sheet
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
vPvB	Very Persistent and Very Bioaccumulative
PBT	Persistent Bioaccumulative Toxic
CAS	CAS (Chemical Abstracts Service) number
CSR	CSR - Chemical Safety Report

Other information : This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product. This document shall be only used and considered as a guideline requiring appropriate and professional chemical handling of this product with caution or under qualified supervision. This product is not intended for purposes alien to those displayed in section 1, unless being informed adequately by written instructions on handling procedures considering this material. This product shall be used in compliance with the Good Laboratory Practice. All potential dangers involved in the interactions of the described product with additional materials and chemicals are not indicated in this form. The user is the solely responsible agent regarding the product's suitability for the intended use, the product's safe use as well as its safe disposal. No warranty or representation, either explicit or implicit, of merchantability, suitable for a specific purpose or of any other nature is made hereunder with respect to the information set forth or to product which the information refers.

Full text of H- and EUH-statements:		
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2	
Skin Corr. 1A	Skin corrosion/irritation, Category 1A	
Skin Irrit. 2	Skin corrosion/irritation, Category 2	
H314	Causes severe skin burns and eye damage.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Skin Corr. 1A	H314	Expert judgment

### SDS EU (REACH Annex II)

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