



# SAFETY DATA SHEET

According to the Annex II of the regulation 1907/2006/EC,  
as updated by the 878/2020/EC

Doc. N° 5100103 rev.0  
Date of issue: 01/02/2021  
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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifiers

Product name : **Legionella Acid Solution**  
Product Number : 5100103  
REACH No. : A registration number is not available for the ingredients of this mixture as the substances or their uses are exempted from registration, the annual tonnage does not require a registration.  
CAS-No. : Not applicable, mixture

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

Identified uses : Laboratory chemical. Use in microbiology in accordance with ISO 11731: 2017. Professional use only  
Uses advised against: None identified. However, please use the product in accordance with the indications reported on the label and on the technical data sheet

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

Company : Biolife Italiana S.r.l.  
Viale Monza 272, 20128 Milano Italia  
Tel : 0039 02 252091  
Fax: 0039 02 2576428  
E-mail: [mktg@biolifeitaliana.it](mailto:mktg@biolifeitaliana.it)

### 1.4 Emergency telephone number

Emergency Phone Number : [https://echa.europa.eu/documents/10162/23019181/emergency\\_phone\\_numbers\\_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d](https://echa.europa.eu/documents/10162/23019181/emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d)

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## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008**  
This mixture is not classified.

### 2.2 Label elements

#### Labelling according Regulation (EC) No 1272/2008

Pictogram	None
Signal word	Warning
Hazard statement(s)	None
Precautionary statement(s)	None
Supplemental Hazard	None



**2.3 Other hazards** None

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

**3.1 Substances:**

Not applicable

**3.2 Mixtures**

**Hazardous ingredients according to Regulation (EC) No 1272/2008**

Nothing to report

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**SECTION 4: First aid measures**

**4.1 Description of first aid measures**

**4.1.1. Routes of exposure:**

*If in eyes:* Rinse cautiously with plenty of water for at least 15 minutes with the eyelid held wide open. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub eyes: mechanical action may cause corneal damage. Immediately call an Ophthalmologist.

*If on skin (or hair):* Remove/ Take off immediately all contaminated clothing. Rinse skin with soap and plenty of water. Wash contaminated clothing before reuse. If skin looks altered or a large amount of product has been released, seek for immediate medical attention.

*If swallowed:* Rinse mouth. Do NOT induce vomiting. Call a doctor / physician in case of complications.

*If inhaled:* Move victim to fresh air and keep at rest in a position comfortable for breathing. If difficulties occur, consult a physician.

**4.1.2. Personal protective equipment for first aid responders:**

Wear protective gloves and clothes. If large release occurs also wear eye and face protection. (Refer to section 8 for personal protection).

**4.2. Most important symptoms and effects, both acute and delayed:**

IF IN EYES: could cause irritation.

IF ON SKIN: could cause irritation on sensitive skin irritation.

IF SWALLOWED: in large quantities can cause digestive tract irritation.

IF INHALED: nothing to report.

**4.3. Indication of any immediate medical attention and special treatment needed:**

As this mixture is not classified, it does not present particular dangers, in case, however, of discomfort following accidental ingestion, or in case of eye contact with irritation symptoms, contact a doctor.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.



## 5.2 Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NOx), Hydrogen chloride gas, Zinc/zinc oxides

## 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

## 5.4 Further information

Areas surrounding a fire should be kept cool by jets of water to prevent the spread of fire. It is suggested, if possible, to remove the combustible material from the affected area. Stay upwind and avoid low areas. Wear full face mask and self-contained breathing apparatus as well as full protective fire-fighting clothing. Collect contaminated extinguishing water separately. Do not discharge into sewers.

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## SECTION 6: Accidental release measures

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

#### 6.1.1 For non-emergency personnel:

In case of accidental release do not walk on the contaminated area and avoid any contact and further spread of the mixture. Remove any open flames present.

#### 6.1.2. For emergency responders:

Keep non trained personnel away from the area where the accidental release took place. Remove any flame and ignition source. Wear adequate clothing to proceed to cleaning up. Refer to section 8 for personal protection.

### 6.2. Environmental precautions:

Avoid dispersion of the mixtures into drains, surface and ground water.

### 6.3. Methods and materials for containment and cleaning up:

#### 6.3.1. Adequate containment techniques:

For minor releases: proceed with normal collection and cleaning operations trying to avoid dispersion of the mixture. For large spills proceed with the collection with suitable tools such as shovels, avoiding the dispersion. Place the spilled material in drums or other suitable containers for disposal. Finish cleaning the contaminated surface by suction and water.

#### 6.3.2. Adequate recovery procedures:

The mixture is miscible with water: if a large quantity of substance is accidentally released into water inform authorities.

### 6.4. Reference to other sections:

Waste disposal: See Section 13.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling:

#### 7.1.1. Recommendations on handling:

Avoid prolonged exposure. Use only in well-ventilated areas. Avoid any contact with the substance. Observe the good industrial hygiene rules. Wear appropriate personal protective equipment

#### 7.1.1.2. Any incompatibilities:



Keep away from heat / sparks / open flames / heated surfaces.

**7.1.1.3. Dangerous operations and conditions and related countermeasures:**

Avoid breathing fumes/gases/fog/vapors/aerosols.

**7.1.1.4. Environmental release control:**

Avoid release into the environment. Store in a tightly closed container.

**7.1.2. Recommendations on hygiene to be kept in workplaces:**

Do not eat, drink or smoke in areas where the material is stored, handled or processed. Personnel handling the product are advised to wash their hands thoroughly before eating, drinking and smoking.

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

Ensure that bags, drums or other container are not damaged and are well closed. Store in cool (below 50°C), dry, well-ventilated, area away from heat sources, flame, spark sources, moisture, acid, alkaline or oxidizing materials.

**7.3. Specific end use(s):**

None in particular (Professional use)

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**8.1.1. National limits:**

	Threshold Limit Values				
	8h		Short Term		Notes
	ppm	mg/m3	ppm	mg/m3	
<i>Hydrochloric Acid</i> (CAS 7647-01-0) Index n° x 017-002-01-X	5	8	10	15	None

**8.1.1.1. National limits in accordance with directive 98/24 / EC:**

	Threshold Limit Values				
	8h		Short Term		Notes
	ppm	mg/m3	ppm	mg/m3	
<i>Hydrochloric Acid</i> (CAS 7647-01-0) Index n° x 017-002-01-X	5	8	10	15	None

**8.1.1.2. National limits in accordance with the directive 2004/37 / CE and with the adjects 2014/113 / EU of the commission:**

	Threshold Limit Values				
	8h		Short Term		Notes
	ppm	mg/m3	ppm	mg/m3	
<i>Hydrochloric Acid</i> (CAS 7647-01-0) Index n° x 017-002-01-X	5	8	10	15	None



**8.1.1.3. Other national limits:**

	ACGIH 2020					
	TWA		STEL/C		Notes	Critical Effect
	ppm	mg/m3	ppm	mg/m3		irrt (rspr at)
Hydrochloric Acid (CAS 7647-01-0) Index n° x 017-002-01-X			C 2		A4*	

\*A4: substances not classifiable as carcinogenic to humans

**8.1.1.4. National biological limits in compliance with directive 98/24 / EC, and with the decision 2014/113 / EU of the commission:**

None

**8.1.1.5. Other national biological limits:**

None.

**8.1.2. Information on the procedures of recommended monitoring:**

Refer to the UNI EN 689: 2018 standard (Atmosphere in the workplace - Measurement of exposure by inhalation to chemical agents - Strategy for checking compliance with occupational exposure limit values).

**8.1.3. National biological limits and / or limits of possible contaminants formed during the use of the substance:**

Not applicable.

**8.1.4. Values of DNEL and PNEC, if available:**

Not available

**8.1.5. Recommendations for management effective of the risk based on control bands (control banding):**

Refer to section 8.2

**8.2. Exposure controls:**

Good industrial hygiene should be adopted.

**8.2.1. Appropriate engineering control:**

*Engineering controls:* Provide general and/or local exhaust ventilation. Provide flowing water and eye washing equipment.

**8.2.2. Individual protection measures, such as personal protective equipment:**

*Eye protection:* Safety glasses according to EN166.

*Skin protection:* Wear suitable industrial clothing depending on the kind of processing in order to avoid skin contact.

*Hand protection:* Wear approved protection gloves, according to EN 374 and EN 388, depending on the kind of processing/manipulation.



*Respiratory protection:* If vapors are formed, use an approved filter respirator.

*Thermal hazards:* Wear heat resistant gloves in case of hot handling.

### 8.2.3. Environmental exposure control:

In case of leakage, suck off the substance as much as possible. Observe the exposure limits and eventually clean the exhaust air if they are exceeded. If reuse of the recovered product is not applicable, dispose in accordance with the local law. Inform the competent authority in case of leakage into the atmosphere or entry into waterways, soil or drains.

*Other advices:* Nothing to report.

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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Liquid
Colour:	From transparent to pale yellow
Odour:	Characteristic
Odour threshold:	Not available
Melting point °C:	Not available
Boiling point °C:	Not available
Flash point °C:	> 100 °C
pH:	about 2
Solubility:	Fully miscible with water
Partition coefficient N-octanol/water:	Not available
Vapor pressure:	Not available
Density (H <sub>2</sub> O=1):	Not available
Relative vapour density:	Not available
Surface tension:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

### 9.2. Other information:

#### 9.2.1. Information with regard to physical hazard classes:

Explosives:	Substance has no chemical groups associated with explosive properties. According to column 2 of Annex VII of Reg. 1907/2006 (REACH) the study does not need to be performed.
Flammable gases:	Not applicable.
Aerosols:	Not applicable.
Oxidising gases:	Not applicable.
Gases under pressure:	Not applicable.
Flammable liquids:	Not applicable.
Flammable solids:	Not flammable.
Self-reactive substances and mixtures:	Not applicable.
Pyrophoric liquids:	Not applicable.
Pyrophoric solids:	Not applicable.
Self-heating substances and mixtures:	Not applicable.
Substances and mixtures, which emit flammable gases In contact with water:	Not applicable.
Oxidising liquids:	Not applicable.
Oxidizing solids:	Substance has no chemical groups associated with oxidizing



	properties. According to column 2 of Annex VII of Reg. 1907/2006 (REACH) the study does not need to be performed.
Organic peroxides:	Not applicable.
Corrosive to metals:	Non tested.
Desensitised explosives:	Not applicable.

**9.2.2. Other safety characteristics:** Data not available

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## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

No particular reactivity in standard use and storage conditions. However, the mixture can react with strong bases.

### **10.2 Chemical stability**

Stable under recommended storage conditions (see Section 7)

### **10.3 Possibility of hazardous reactions**

Not expected in normal storage and use conditions

### **10.4 Conditions to avoid**

None in particular

### **10.5 Incompatible materials**

Strong alkali

### **10.6 Hazardous decomposition products**

No decomposition under normal conditions of use and storage.

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## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

According to the information available, this mixture is not classified according to EC regulation 1272/2008.

#### **Acute toxicity**

No experimental data are available on the mixture. According to the data available on the ingredients, this mixture is not classified

#### **Skin corrosion/irritation**

No experimental data are available on the mixture. According to the data available on the ingredients, this mixture is not classified

#### **Serious eye damage/eye irritation**

No experimental data are available on the mixture. According to the data available on the ingredients, this mixture is not classified

#### **Respiratory or skin sensitisation**

No experimental data are available on the mixture. According to the data available on the ingredients, this mixture is not classified

#### **Germ cell mutagenicity**

No experimental data are available on the mixture. According to the acute toxicity data available on the ingredients, this mixture is not classified



### **Carcinogenicity**

No experimental data are available on the mixture. According to the acute toxicity data available on the ingredients, this mixture is not classified

### **Reproductive toxicity**

No experimental data are available on the mixture. According to the acute toxicity data available on the ingredients, this mixture is not classified

### **Specific target organ toxicity - single exposure**

No experimental data are available on the mixture. According to the acute toxicity data available on the ingredients, this mixture is not classified

### **Specific target organ toxicity - repeated exposure**

No experimental data are available on the mixture. According to the acute toxicity data available on the ingredients, this mixture is not classified

### **Aspiration hazard**

No experimental data are available on the mixture. According to the acute toxicity data available on the ingredients, this mixture is not classified

### **Information on likely routes of exposure:**

Skin / eye contact with the product as it is are the most likely routes of exposure. Inhalation of mists / vapors is not expected to be a relevant route of exposure

### **Symptoms related to the physical, chemical and toxicological characteristics:**

In case of accidental contact with the mixture, a slight irritation of eyes and / or skin may occur in particularly sensitive people

### **Delayed and immediate effects and chronic effects from short and long term exposure:**

See Above

### **Interactive Effects:**

Information not available

### **11.2 Information on other hazards:**

#### **11.2.1. Endocrine disrupting properties:**

Data not available

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## **SECTION 12: Ecological information**

### **12.1 Toxicity**

According to the information available on the ingredients, the product is not classified in accordance with the criteria established by EC Regulation 1272/2008 regarding the dangers to the aquatic environment

### **12.2 Persistence and degradability**

Mixture based on inorganic ingredients

### **12.3 Bioaccumulative potential**

None, blend based on inorganic ingredients not bioaccumulant

### **12.4 Mobility in soil**

Information not available



**12.5 Results of PBT and vPvB assessment**

This mixture does not contain components considered to be persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB)

**12.6. Endocrine disrupting properties:**

Data not available.

**12.7. Other adverse effects:**

None known

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**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose residues and packaging in accordance with local and state laws. Dispose of hazardous products according to European Waste Catalogue (EWC).

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**SECTION 14: Transport information**

**14.1 UN number** Not applicable, not dangerous goods

**14.2 UN proper shipping name** ADR/RID: Not dangerous goods  
IMDG: Not dangerous goods  
IATA: Not dangerous goods

**14.3 Transport hazard class(es)** None

**14.4 Packaging group** None

**14.5 Environmental hazards** None

**14.6 Special precautions for user** Nothing to report

**14.7 Transport in bulk according to annex II of MARPOL 73/78 and the IBC code:**

Not applicable according to the way the product is supplied (packaged in cardboard boxes containing 6 vials of 200 ml)

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**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture:**

Reg. 1907/2006/EC (REACH)

*Substances in candidate list:* None.

*Substances in REACH annex XVII:* None.

*Substances in REACH annex XIV:* None.

Reg. 1272/2008/EC (CLP) Mixture not classified

Seveso (dir. 2012/18/UE): Not applicable



## 15.2. Chemical safety assessment:

A Chemical Safety Assessment is not available for this mixture

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## SECTION 16: Other information

This Safety Data Sheet is prepared in accordance with Annex II of Reg. (EC) No. 1907/2006 (REACH) as amended by Reg. (EC) No. 878/2020 and refers to the mixture as supplied.

If this mixture is used as a component of another mixture, this safety data sheet cannot be automatically considered valid.

Any revision is indicated by (#)

### *Acronyms*

ACGIH = American Conference of Governmental Industrial Hygienists

DNEL = Derived No Effect Level

PNEC = Predicted No Effect Concentration

STEL = Short Term Exposure Limit

TLV = Threshold Limit Value

TWA = Time Weighted Average

### *Bibliography:*

Data are sourced from the REACH registration dossier, available on the ECHA dissemination tool web page and the SDS of the used raw materials.

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