

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### **SECTION 1 Identification of the Substance/Mixture and of the Company/Undertaking**

#### **1.1. Product identifier**

Product Names: Papain Solution  
Product Options: 61.25 mg/L in PBS without Ca, Mg, sterile filtered, Fill size 100 ml.  
Product Code: RPL-001-100ML

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

Identified uses: Laboratory chemicals, Manufacture of substances

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

Company: Serana Europe GmbH  
Dorfstrasse 17A  
14641 Pessin  
Germany  
Phone: +49 (0)332 3785 9253  
E-Mail: [info@serana-europe.com](mailto:info@serana-europe.com)

#### **1.4. Emergency telephone number**

Emergency Phone: Regular Office Hours +49 (0)332 3785 9253

### **SECTION 2 Hazards Identification**

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

The product is not classified as hazardous according to CLP Regulation (EC) No 1272/2008.

#### **2.2. Label elements**

**CLP Regulation (EC) No 1272/2008:**

Not applicable

#### **2.3. Other hazards**

Not applicable

**Safety Data Sheet**

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

**SECTION 3 Composition/Information on Ingredients****3.1. Substances**

Non-applicable

**3.2. Mixture****Chemical characterization:** water-based mixture of inorganic and organic compounds in Phosphate-buffered saline (PBS).

In accordance with Annex II Regulation (EC) No 1907/2006 (point 3), the product contains:

Chemical name	Identification	Concentration
Papain	CAS: 9001-73-4 EC: 232-627-2	61.25 mg/L

**SECTION 4 First Aid Measures****4.1. Description of first aid measures**

In either case, seek medical attention if the symptoms get worse or persist. showing the SDS of this product.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration.

**In case of skin contact**

Wash off with soap and plenty of water.

**In case of eye contact**

Flush eyes with water as a precaution.

**If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water.

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

Acute and delayed effects are indicated in section 2 and 11.

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

No data available.

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### **SECTION 5 Firefighting Measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment (e.g. ABC powder).

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

Nature of decomposition products not known.

#### **5.3. Advice for firefighters**

Wear self-contained breathing apparatus for fire-fighting if necessary.

#### **5.4. Further information**

The product itself does not burn.

### **SECTION 6 Accidental Release Measures**

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

Avoid breathing vapors, mist or gas. For personal protection see section 8.

#### **6.2. Environmental precautions**

Do not let product enter drains.

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

Absorb the spillage using sand or inert absorbent material. Keep in suitable, closed containers for disposal.

#### **6.4. Reference to other sections**

For disposal see section 13.

### **SECTION 7 Handling and Storage**

#### **7.1. Precautions for safe handling**

For precautions see section 2.

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

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

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended storage temperature: -5 to -20 °C

### 7.3. Specific end uses

A part from the uses mentioned in section 1.2. no other specific uses are stipulated.

## **SECTION 8 Exposure Controls/Personal Protection**

### 8.1. Control parameters

There are no occupational exposure limits for the substances contained in this product.

### 8.2. Exposure controls

#### 8.2.1. Appropriate engineering controls

General industrial hygiene practice. Ensure adequate ventilation, especially in confined areas.

#### 8.2.2. Personal protective equipment

##### Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### Respiratory protection

Respiratory protection is mandatory: wear filter mask for gases and vapours.  
Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

### 8.2.3. Environmental exposure controls

Do not let product enter drains.

## SECTION 9 Physical and Chemical Properties

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

Appearance:	Form: liquid
Odor:	No data available.
pH:	No data available.
Water solubility:	No data available.

### 9.2. Other safety information

No data available

## SECTION 10 Stability and Reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under recommended storage conditions.

### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

Other decomposition products: No data available.

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### **SECTION 11 Toxicological Information**

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

##### **Acute toxicity**

No data available.

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

May produce skin inflammation.

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

May produce eye damage after contact.

##### **Respiratory or skin sensitization**

May cause irritation of respiratory tract, which is normally reversible and limited to the upper respiratory tract. Prolonged exposure can result in specific respiratory hypersensitivity.

##### **Ingestion**

May be harmful if swallowed. The consumption of a considerable dose can cause irritation in the throat, abdominal pain, nausea and vomiting.

##### **Germ cell mutagenicity**

No data available.

##### **Carcinogenicity**

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

##### **Reproductive toxicity**

No data available.

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

No data available.

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

No data available.

##### **Aspiration hazard**

No data available.

##### **Potential health effects**

No data available

##### **Signs and Symptoms of Exposure**

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

##### **Additional Information**

RTECS: No data available.

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### SECTION 12 Ecological Information

**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

**12.6. Other adverse effects**

No data available.

### SECTION 13 Disposal Considerations

**13.1. Waste treatment methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

### SECTION 14 Transport Information

**14.1. UN-number**

ADR/RID: - IMDG: - IATA: -

**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)**

ADR/RID: - IMDG: - IATA: -

**14.4. Packaging group**

ADR/RID: - IMDG: - IATA: -

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

### 14.5. Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA: no

### 14.6. Special precautions for user

No data available.

## SECTION 15 Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2. Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

## SECTION 16 Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

#### a) Revised Version:

Third Version, date of issue: 01-JUL-2020

#### b) List of Abbreviations:

ADR: European agreement concerning the international carriage of dangerous goods by road

IMDG: International maritime dangerous goods code

IATA: International air transport association

IBC: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

vPvB: very persistent and very bioaccumulative

#### c) References:

<http://echa.europa.eu>

<http://eur-lex.europa.eu>



## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH)

Version 4, Revision Date: 10-JUL-2023

Print Date: 10-JUL-2023

- d) Methods for evaluation of mixtures according to Article 9 of Regulation (EC) No 1272/2008:  
No data available.
- e) List of hazard and precautionary statements:  
If applicable, please see section 2.
- f) Training advice:  
General laboratory instructions are required. No special training advised.

**- END OF SAFETY DATA SHEET -**