

## Safety Data Sheet

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

Version 3, Revision Date: 01-JUL-2020

Print Date: 01-JUL-2020

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

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

Product Names: HEPES Solution  
Product Options: 1M solution (238.3 g/l HEPES) in purified water, sterile filtered  
Product Code: BHL-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

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### **SECTION 3 Composition/Information on Ingredients**

#### **3.1. Substances**

The product contains no substances which are considered at their given concentration to be hazardous to health.

#### **3.2. Mixtures**

**Chemical characterization:** buffer solution

### **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 for at least 15 minutes.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Do not induce vomiting and keep the head down to avoid aspiration. 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.

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### **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). It is not recommended to use tap water.

#### **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.

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

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

Avoid breathing vapours, 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.

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

Store in a 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: 20 – 22 °C

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### 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. Individual protection measures

##### **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. Arms and legs have to be covered and appropriate footwear is obligatory. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### **Respiratory protection**

Respiratory protection not required only in case of insufficient ventilation. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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### 8.2.3. Environmental expose 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, colourless
Odour:	No data available.
Odour threshold:	No data available.
pH:	No data available.
Melting point/freezing point:	No data available.
Initial boiling point and boiling range:	No data available.
Flash point:	No data available.
Evaporation point:	No data available.
Flammability:	No data available.
Upper/ lower flammability or exposure limits:	No data available.
Vapour pressure:	No data available.
Vapour density:	No data available.
Relative density:	No data available.
Solubilities:	No data available.
Partition coefficient: n-octanol/water:	No data available.
Auto-ignition temperature:	No data available.
Decomposition temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidising properties:	No data available.

### 9.2. Other safety information

No data available.

## SECTION 10 Stability and Reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

Stable under recommended storage conditions.

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### 10.3. Possibility of hazardous reactions

No data available.

### 10.4. Conditions to avoid

No data available.

### 10.5. Incompatible materials

Avoid alkalis and strong bases and strong acids.

### 10.6. Hazardous decomposition products

Other decomposition products: No data available.

## SECTION 11 Toxicological Information

### 11.1. Information on toxicological effects

#### Acute toxicity

No data available.

#### Skin corrosion/irritation

Data not available.

#### Serious eye damage/eye irritation

Data not available.

#### Respiratory or skin sensitization

No data available.

#### 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

Data not available.

#### Specific target organ toxicity – repeated exposure

No data available.

#### Aspiration hazard

No data available.

#### Potential health effects

May be harmful if swallowed.

#### Signs and Symptoms of Exposure

The chemical, physical, and toxicological properties have not been thoroughly investigated.

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### Additional Information

RTECS: No data available.

### 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 as used 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

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**14.3. Transport hazard class(es)**

ADR/RID: - IMDG: - IATA: -

**14.4. Packaging group**

ADR/RID: - IMDG: - IATA: -

**14.5. Environmental hazards**

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

**14.6. Special precautions for user**

No data available.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

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:

Second Version, date of issue: 01-FEB-2019

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



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vPvB: very persistent and very bioaccumulative

- c) References:  
<http://echa.europa.eu>  
<http://eur-lex.europa.eu>
- 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 -