

# Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 02.12.2011

Version number 1

Revision: 01.12.2011

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

- **1.1. Product identifier**
- **Trade name:** Stain Solubilizer Solution
- **Article number:** 42562
- **1.2. Relevant identified uses of the substance or mixture and uses advised against**
- **Application of the substance / the preparation** Laboratory chemicals
- **1.3. Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
SERVA Electrophoresis GmbH  
Carl-Benz-Str. 7  
D-69115 Heidelberg  
Tel.: +49 6221 13840-0  
FAX: +49 6221 13840-10  
msds.info@serva.de
- **Information department:** Product Safety department Tel.: +49 6221 13840-35
- **1.4. Emergency telephone number:** +49 6131 19240 (university hospital Mainz)

**SERVA**  
Electrophoresis

## 2 Hazards identification

- **2.1. Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS05

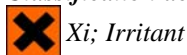
Skin Corr. 1B H314 Causes severe skin burns and eye damage.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Xi; Irritant

R36/38: Irritating to eyes and skin.

- **Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

- **Classification system:**

The classification was made according to the latest editions of the EU-lists, and expanded upon from company and literature data.

- **2.2. Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms** GHS05

- **Signal word** Danger

- **Hazard statements**

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

- **Precautionary statements**

P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

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- P304+P340 *IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.*
- P305+P351+P338 *IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.*
- P301+P330+P331 *IF SWALLOWED: rinse mouth. Do NOT induce vomiting.*
- P337+P313 *If eye irritation persists: Get medical advice/attention.*
- P363 *Wash contaminated clothing before reuse.*

- **2.3. Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### 3 Composition/information on ingredients

- **3.2. Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with harmless additions.

· **Dangerous components:**

CAS: 7664-38-2	phosphoric acid 85 %	 C R34	15-30%
EINECS: 231-633-2		 Skin Corr. 1B, H314	

- **Additional information** For the wording of the listed risk phrases refer to section 16.

### 4 First aid measures

- **4.1. Description of first aid measures**
- **General information** Remove contaminated clothing.
- **After inhalation** Supply fresh air and to be sure call for a doctor.
- **After skin contact** Immediately rinse with water.
- **After eye contact** Rinse opened eye for several minutes under running water. Then consult doctor.
- **After swallowing** Drink copious amounts of water and provide fresh air. Call for doctor immediately.
- **Information for doctor**
- **4.2. Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3. Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Firefighting measures

- **5.1. Extinguishing media**
- **Suitable extinguishing agents** Use fire fighting measures that suit the environment.
- **5.2. Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3. Advice for firefighters**
- **Protective equipment:** Mount respiratory protective device.

### 6 Accidental release measures

- **6.1. Personal precautions, protective equipment and emergency procedures** Wear protective clothing.
- **6.2. Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **6.3. Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **6.4. Reference to other sections**  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

## 7 Handling and storage

- **Handling**
- **7.1. Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about protection against explosions and fires:** The product is not flammable
- **7.2. Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **7.3. Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

### 8.1. Control parameters

- **Components with limit values that require monitoring at the workplace:**

**7664-38-2 phosphoric acid 85 % (15-30%)**

WEL ()	Short-term value: 2 mg/m <sup>3</sup> Long-term value: 1 mg/m <sup>3</sup>
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- **Additional information:** The lists that were valid during the creation were used as basis.

### 8.2. Exposure controls

#### Personal protective equipment

#### General protective and hygienic measures

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

#### Breathing equipment:

Short term filter device:  
Filter P2.

#### Protection of hands:

Protective gloves.  
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.  
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:**

Rubber gloves  
PVC gloves

- **Eye protection:** Safety glasses

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· **Body protection:** *Protective work clothing.*

## 9 Physical and chemical properties

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

#### · General Information

#### · Appearance:

· <b>Form:</b>	<i>Solution</i>
· <b>Colour:</b>	<i>Colourless</i>
· <b>Odour:</b>	<i>Characteristic</i>

· <b>pH-value at 20°C:</b>	<i>0.5</i>
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#### · Change in condition

· **Melting point/Melting range:** *undetermined*

· **Boiling point/Boiling range:** *undetermined*

· <b>Flash point:</b>	<i>Not applicable</i>
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· <b>Self igniting:</b>	<i>Product is not selfigniting.</i>
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· <b>Danger of explosion:</b>	<i>Product does not present an explosion hazard.</i>
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· <b>Density at 20°C:</b>	<i>1.1 g/cm<sup>3</sup></i>
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#### · Solubility in / Miscibility with

· <b>Water:</b>	<i>Fully miscible</i>
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#### · Solvent content:

· <b>Organic solvents:</b>	<i>0.0 %</i>
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· <b>9.2. Other information</b>	<i>No further relevant information available.</i>
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## 10 Stability and reactivity

### · 10.1. Reactivity

### · 10.2. Chemical stability

· **Thermal decomposition / conditions to be avoided:** *No decomposition if used according to specifications.*

· **10.3. Possibility of hazardous reactions** *No dangerous reactions known*

· **10.4. Conditions to avoid** *No further relevant information available.*

· **10.5. Incompatible materials:** *No further relevant information available.*

· **10.6. Hazardous decomposition products:** *No dangerous decomposition products known*

## 11 Toxicological information

### · 11.1. Information on toxicological effects

#### · Acute toxicity:

#### · Primary irritant effect:

· **on the skin:** *Irritant to skin and mucous membranes.*

· **on the eye:** *Irritating effect.*

· **Sensitization:** *No sensitizing effects known.*

#### · Additional toxicological information:

*The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:*

*Irritant*

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### 12 Ecological information

- **12.1. Toxicity**
- **Acquatic toxicity:** No further relevant information available.
- **12.2. Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **12.3. Bioaccumulative potential** No further relevant information available.
- **12.4. Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Rinse off of bigger amounts into drains or the aquatic environment may lead to decreased pH-values. A low pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably increased, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.
- **12.5. Results of PBT and vPvB assessment**
- **PBT:** PBT - assessment not available.
- **vPvB:** vPvB - assessment not available.
- **12.6. Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **13.1. Waste treatment methods**
- **Recommendation**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport information

- |   |   |
|---|---|
| · <b>14.1. UN-Number</b><br>· <b>ADR, IMDG, IATA</b>                                | 1805  |
| · <b>14.2. UN proper shipping name</b><br>· <b>ADR</b><br>· <b>IMDG, IATA</b>       | 1805 PHOSPHORIC ACID, SOLUTION<br>PHOSPHORIC ACID, SOLUTION |
| · <b>14.3. Transport hazard class(es)</b><br>· <b>ADR</b>                           |   |
|  |   |
| · <b>Class</b><br>· <b>Label</b>  | 8 Corrosive substances.<br>8                                |
| · <b>IMDG, IATA</b>   |   |
|  |   |
| · <b>Class</b>  | 8 Corrosive substances.                                     |

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· <b>Label</b>	8
· <b>14.4. Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>14.5. Environmental hazards:</b> · <b>Marine pollutant:</b>	No
· <b>14.6. Special precautions for user</b> · <b>Danger code (Kemler):</b> · <b>EMS Number:</b>	Warning: Corrosive substances. 80 F-A,S-B
· <b>14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Tunnel restriction code</b>	E
· <b>UN "Model Regulation":</b>	UN1805, PHOSPHORIC ACID, SOLUTION, 8, III

### 15 Regulatory information

- **15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations**
- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.
- **15.2. Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

H314 Causes severe skin burns and eye damage.

R34 Causes burns.

- **Department issuing MSDS:** Product safety department

- **Contact:** +49 6221 13840-35

- **Abbreviations and acronyms:**

PBT: persistent, bioaccumulative, toxic substance (REACH)

vPvB: very persistent, very bioaccumulative substance (REACH)

REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

CLP: Regulation on classification, labelling and packaging of substances and mixtures

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

- **\* Data compared to the previous version altered.**