

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

Revision Date 23.08.2013

Version 1.1

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

### 1.1 Product identifier

Catalogue No. 480949  
Product name PAB solution for sanitization of ProSep® and Eshmuno® Protein A affinity chromatography media  
REACH Registration Number This product is a mixture. REACH Registration Number see section 3.

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

Identified uses Pharmaceutical production  
For additional information on uses please refer to the Merck Chemicals portal ([www.merck-chemicals.com](http://www.merck-chemicals.com)).

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

Company Merck KGaA \* 64271 Darmstadt \* Germany \* Phone:+49 6151 72-0  
Responsible Department EQ-RS \* e-mail: [prodsafe@merckgroup.com](mailto:prodsafe@merckgroup.com)

1.4 Emergency telephone number Please contact the regional company representation in your country.

## SECTION 2. Hazards identification

### 2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1, H290

For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification (67/548/EEC or 1999/45/EC) In accordance with EC directives or respective national laws, the product does not need to be classified nor labelled.

### 2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms



Signal word

Warning

Hazard statements

H290 May be corrosive to metals.

Reduced labelling (≤125 ml)

Not required.

### 2.3 Other hazards

None known.

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## SECTION 3. Composition/information on ingredients

Chemical nature Aqueous solution of inorganic and organic compounds.

### 3.1 Substance

not applicable

### 3.2 Mixture

#### Hazardous components (REGULATION (EC) No 1272/2008)

*Chemical Name (Concentration)*

| CAS-No. | Registration number | Classification |
|---------|---------------------|----------------|
|---------|---------------------|----------------|

Benzyl alcohol (>= 1 % - < 10 % )

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

|          |                       |  |
|----------|-----------------------|--|
| 100-51-6 | 01-2119492630-38-XXXX | Acute toxicity, Category 4, H332<br>Acute toxicity, Category 4, H302 |
|----------|-----------------------|--|

phosphoric acid (>= 1 % - < 5 % )

|           |                       |  |
|-----------|-----------------------|--|
| 7664-38-2 | 01-2119485924-24-XXXX | Skin corrosion, Category 1B, H314<br>Corrosive to metals, Category 1, H290 |
|-----------|-----------------------|--|

acetic acid (>= 1 % - < 5 % )

*Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.*

|         |                       |   |
|---------|-----------------------|---|
| 64-19-7 | 01-2119475328-30-XXXX | Flammable liquid, Category 3, H226<br>Skin corrosion, Category 1A, H314 |
|---------|-----------------------|---|

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### Hazardous components (1999/45/EC)

*Chemical Name (Concentration)*

| CAS-No. | Classification |
|---------|----------------|
|---------|----------------|

Benzyl alcohol (>= 1 % - < 10 % )

|          |                     |
|----------|---------------------|
| 100-51-6 | Xn, Harmful; R20/22 |
|----------|---------------------|

phosphoric acid (>= 1 % - < 5 % )

|           |                   |
|-----------|-------------------|
| 7664-38-2 | C, Corrosive; R34 |
|-----------|-------------------|

acetic acid (>= 1 % - < 5 % )

|         |                          |
|---------|--------------------------|
| 64-19-7 | R10<br>C, Corrosive; R35 |
|---------|--------------------------|

For the full text of the R-phrases mentioned in this Section, see Section 16.

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## SECTION 4. First aid measures

### 4.1 Description of first aid measures

After inhalation: fresh air.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

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

**4.3 Indication of any immediate medical attention and special treatment needed**  
No information 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.

*Unsuitable extinguishing media*

For this substance/mixture no limitations of extinguishing agents are given.

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

Not combustible.

Ambient fire may liberate hazardous vapours.

**5.3 Advice for firefighters**

*Special protective equipment for firefighters*

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.

*Further information*

Suppress (knock down) gases/vapours/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

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**SECTION 6. Accidental release measures**

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

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders:

Protective equipment see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

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

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up with liquid-absorbent material (e.g. Chemisorb®). Dispose of properly. Clean up affected area.

**6.4 Reference to other sections**

Indications about waste treatment see section 13.

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**SECTION 7. Handling and storage**

**7.1 Precautions for safe handling**

*Advice on safe handling*

Observe label precautions.

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*Hygiene measures*

Change contaminated clothing. Wash hands after working with substance.

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

*Requirements for storage areas and containers*

No metal containers.

*Storage conditions*

Tightly closed.

Store at +15°C to +25°C.

**7.3 Specific end use(s)**

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

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

**8.1 Control parameters**

**Derived No Effect Level (DNEL)**

*Benzyl alcohol (100-51-6)*

|                         |                  |            |                        |
|-------------------------|------------------|------------|------------------------|
| Worker DNEL, acute      | Systemic effects | inhalation | 450 mg/m <sup>3</sup>  |
| Worker DNEL, acute      | Systemic effects | dermal     | 47 mg/kg Body weight   |
| Worker DNEL, longterm   | Systemic effects | inhalation | 90 mg/m <sup>3</sup>   |
| Worker DNEL, longterm   | Systemic effects | dermal     | 9,5 mg/kg Body weight  |
| Consumer DNEL, acute    | Systemic effects | oral       | 25 mg/kg Body weight   |
| Consumer DNEL, acute    | Systemic effects | inhalation | 95,5 mg/m <sup>3</sup> |
| Consumer DNEL, acute    | Systemic effects | dermal     | 28,5 mg/kg Body weight |
| Consumer DNEL, longterm | Systemic effects | oral       | 5 mg/kg Body weight    |
| Consumer DNEL, longterm | Systemic effects | inhalation | 19,1 mg/m <sup>3</sup> |
| Consumer DNEL, longterm | Systemic effects | dermal     | 5,7 mg/kg Body weight  |

*acetic acid (64-19-7)*

|                         |               |            |                      |
|-------------------------|---------------|------------|----------------------|
| Worker DNEL, acute      | Local effects | inhalation | 25 mg/m <sup>3</sup> |
| Worker DNEL, longterm   | Local effects | inhalation | 25 mg/m <sup>3</sup> |
| Consumer DNEL, acute    | Local effects | inhalation | 25 mg/m <sup>3</sup> |
| Consumer DNEL, longterm | Local effects | inhalation | 25 mg/m <sup>3</sup> |

**Predicted No Effect Concentration (PNEC)**

*Benzyl alcohol (100-51-6)*

|                           |             |
|---------------------------|-------------|
| PNEC Fresh water          | 1 mg/l      |
| PNEC Fresh water sediment | 5,27 mg/kg  |
| PNEC Marine water         | 0,1 mg/l    |
| PNEC Marine sediment      | 0,527 mg/kg |
| PNEC Soil                 | 0,456 mg/kg |

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|                                   |             |
|-----------------------------------|-------------|
| PNEC Sewage treatment plant       | 39 mg/l     |
| PNEC Aquatic intermittent release | 2,3 mg/l    |
| <i>acetic acid (64-19-7)</i>      |             |
| PNEC Fresh water                  | 3,058 mg/l  |
| PNEC Fresh water sediment         | 11,36 mg/kg |
| PNEC Marine water                 | 0,3058 mg/l |
| PNEC Marine sediment              | 1,136 mg/kg |
| PNEC Aquatic intermittent release | 30,58 mg/l  |
| PNEC Sewage treatment plant       | 85 mg/l     |

## 8.2 Exposure controls

### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

### Individual protection measures

Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

#### *Eye/face protection*

Safety glasses

#### *Hand protection*

full contact:

|                     |                |
|---------------------|----------------|
| Glove material:     | Nitrile rubber |
| Glove thickness:    | 0,11 mm        |
| Break through time: | > 480 min      |

splash contact:

|                     |                |
|---------------------|----------------|
| Glove material:     | Nitrile rubber |
| Glove thickness:    | 0,11 mm        |
| Break through time: | > 480 min      |

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

This recommendation applies only to the product stated in the safety data sheet(>,<) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: [www.kcl.de](http://www.kcl.de)).

#### *Other protective equipment*

protective clothing

#### *Respiratory protection*

Not required; except in case of aerosol formation.

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**Environmental exposure controls**

Do not let product enter drains.

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**SECTION 9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

|  |                              |
|--|------------------------------|
| Form                                   | liquid                       |
| Colour                                 | colourless                   |
| Odour                                  | No strong odour known.       |
| Odour Threshold                        | No information available.    |
| pH                                     | acidic                       |
| Melting point                          | No information available.    |
| Boiling point                          | No information available.    |
| Flash point                            | No information available.    |
| Evaporation rate                       | No information available.    |
| Flammability (solid, gas)              | No information available.    |
| Lower explosion limit                  | No information available.    |
| Upper explosion limit                  | No information available.    |
| Vapour pressure                        | No information available.    |
| Relative vapour density                | No information available.    |
| Relative density                       | 1,067 g/cm <sup>3</sup>      |
| Water solubility                       | soluble                      |
| Partition coefficient: n-octanol/water | not applicable               |
| Auto-ignition temperature              | No information available.    |
| Decomposition temperature              | No information available.    |
| Viscosity, dynamic                     | No information available.    |
| Explosive properties                   | Not classified as explosive. |
| Oxidizing properties                   | none                         |

**9.2 Other data**

none

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**SECTION 10. Stability and reactivity**

**10.1 Reactivity**

See section 10.3

**10.2 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

**10.3 Possibility of hazardous reactions**

Violent reactions possible with:

The generally known reaction partners of water.

**10.4 Conditions to avoid**

no information available

**10.5 Incompatible materials**

Metals

**10.6 Hazardous decomposition products**

no information available

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**SECTION 11. Toxicological information**

**11.1 Information on toxicological effects**

**Mixture**

*Acute oral toxicity*

Acute toxicity estimate: > 2.000 mg/kg

Calculation method

*Acute inhalation toxicity*

Acute toxicity estimate: > 20 mg/l; 4 h ; vapour

Calculation method

*Acute dermal toxicity*

This information is not available.

*Skin irritation*

Possible damages: slight irritation

*Eye irritation*

Possible damages: slight irritation

*Sensitisation*

This information is not available.

*Germ cell mutagenicity*

This information is not available.

*Carcinogenicity*

This information is not available.

*Reproductive toxicity*

This information is not available.

*Teratogenicity*

This information is not available.

*Specific target organ toxicity - single exposure*

This information is not available.

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*Specific target organ toxicity - repeated exposure*

This information is not available.

*Aspiration hazard*

This information is not available.

## 11.2 Further information

However, when the product is handled appropriately, hazardous effects are unlikely to occur.  
Handle in accordance with good industrial hygiene and safety practice.

## Components

### *Benzyl alcohol*

*Acute oral toxicity*

LD50 rat: 1.230 mg/kg (IUCLID)

*Acute inhalation toxicity*

LC50 rat: ca. 8,8 mg/l; 4 h (IUCLID)

*Acute dermal toxicity*

LD50 rabbit: 2.000 mg/kg (RTECS)

*Skin irritation*

rabbit

Result: No irritation

OECD Test Guideline 404

*Eye irritation*

rabbit

Result: slight irritation

OECD Test Guideline 405

*Sensitisation*

Maximisation Test

Result: negative

Method: OECD Test Guideline 406

*Germ cell mutagenicity*

*Genotoxicity in vitro*

Ames test

Result: negative

(IUCLID)

### *phosphoric acid*

*Acute oral toxicity*

LD50 rat: 1.530 mg/kg (IUCLID) (Regulation (EC) No 1272/2008, Annex VI)

*Acute inhalation toxicity*

LC50 rat: > 0,85 mg/l; 1 h (RTECS)

*Acute dermal toxicity*

LD50 rabbit: 2.740 mg/kg (IUCLID)

*Skin irritation*

rabbit

Result: Causes burns.

(IUCLID)

*Eye irritation*

rabbit

Result: Causes burns.

(IUCLID)



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*Sensitisation*  
Patch test: human  
Result: negative  
(IUCLID)

*Germ cell mutagenicity*  
*Genotoxicity in vitro*  
Ames test  
Result: negative  
(IUCLID)

*acetic acid*

*Acute oral toxicity*  
LD50 rat: 3.310 mg/kg (RTECS)

*Acute inhalation toxicity*  
LCLO rat: 39,95 mg/l; 4 h (RTECS)

LC50 rat: 11,4 mg/l; 4 h (IUCLID)

*Acute dermal toxicity*  
LD50 rabbit: 1.060 mg/kg (IUCLID)

*Skin irritation*  
rabbit  
Result: Causes burns.  
(IUCLID)

*Germ cell mutagenicity*  
*Genotoxicity in vitro*  
Ames test  
Salmonella typhimurium  
Result: negative  
(National Toxicology Program)

*Teratogenicity*  
Did not show teratogenic effects in animal experiments. (IUCLID)

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**SECTION 12. Ecological information**

**Mixture**

**12.1 Toxicity**

No information available.

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

*Partition coefficient: n-octanol/water*  
not applicable

**12.4 Mobility in soil**

No information 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**

Discharge into the environment must be avoided.

**Components**

*Benzyl alcohol*

*Toxicity to fish*  
LC50 *Lepomis macrochirus* (Bluegill sunfish): 10 mg/l; 96 h (IUCLID)

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*Toxicity to daphnia and other aquatic invertebrates*  
EC50 Tetrahymen pyriformis: 854 mg/l; 48 h (ECOTOX Database)

EC50 Daphnia magna (Water flea): 400 mg/l; 24 h (IUCLID)

*Toxicity to algae*  
IC5 Scenedesmus quadricauda (Green algae): 640 mg/l; 96 h (IUCLID)

*Toxicity to bacteria*  
EC50 Photobacterium phosphoreum: 71,4 mg/l; 30 min (IUCLID)

*Biodegradability*  
92 - 96 %; 28 d  
OECD Test Guideline 301C  
Readily biodegradable.

*Biochemical Oxygen Demand (BOD)*  
1.550 mg/g (5 d)  
(Lit.)

*Theoretical oxygen demand (ThOD)*  
2.515 mg/g  
(IUCLID)

*Ratio BOD/ThBOD*  
BOD5 62 %  
(Lit.)

*Ratio COD/ThBOD*  
96 %  
(Lit.)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

*phosphoric acid*

*Toxicity to fish*  
LC50 Gambusia affinis (Mosquito fish): 138 mg/l; 96 h (External MSDS)

*Toxicity to bacteria*  
EC50 activated sludge: 270 mg/l(IUCLID)

*Biodegradability*

Does not cause biological oxygen deficit.

*acetic acid*

*Toxicity to fish*  
LC50 Lepomis macrochirus (Bluegill sunfish): 75 mg/l; 96 h (Lit.)

*Toxicity to daphnia and other aquatic invertebrates*  
EC5 E.sulcatum: 78 mg/l; 72 h neutral (maximum permissible toxic concentration) (Lit.)

EC50 Daphnia magna (Water flea): 47 mg/l; 24 h (Lit.)

*Toxicity to algae*  
IC5 Scenedesmus quadricauda (Green algae): 4.000 mg/l; 16 h (maximum permissible toxic concentration) (Lit.)

*Toxicity to bacteria*  
EC5 Pseudomonas putida: 2.850 mg/l; 16 h neutral (maximum permissible toxic concentration) (Lit.)

microtox test EC50 Photobacterium phosphoreum: 11 mg/l; 15 min (IUCLID)

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*Biodegradability*

99 %; 30 d  
OECD Test Guideline 301D  
(HSDB)  
Readily biodegradable.

95 %; 5 d  
OECD Test Guideline 302B  
Readily eliminated from water

*Biochemical Oxygen Demand (BOD)*

880 mg/g (5 d)  
(Lit.)

*Ratio BOD/ThBOD*

BOD5 76 %  
(IUCLID)

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

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**SECTION 13. Disposal considerations**

*Waste treatment methods*

See [www.retrologistik.com](http://www.retrologistik.com) for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

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**SECTION 14. Transport information**

**Land transport (ADR/RID)**

14.1 UN number UN 1805  
14.2 Proper shipping name PHOSPHORIC ACID, SOLUTION  
14.3 Class 8  
14.4 Packing group III  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes  
Tunnel restriction code E

**Inland waterway transport (ADN)**

Not relevant

**Air transport (IATA)**

14.1 UN number UN 1805  
14.2 Proper shipping name PHOSPHORIC ACID, SOLUTION  
14.3 Class 8  
14.4 Packing group III  
14.5 Environmentally hazardous --  
14.6 Special precautions for user no

**Sea transport (IMDG)**

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14.1 UN number UN 1805  
14.2 Proper shipping name PHOSPHORIC ACID SOLUTION  
14.3 Class 8  
14.4 Packing group III  
14.5 Environmentally hazardous --  
14.6 Special precautions for user yes  
EmS F-A S-B  
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code  
Not relevant

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**SECTION 15. Regulatory information**

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

*EU regulations*

Major Accident Hazard 96/82/EC  
Legislation Directive 96/82/EC does not apply  
Occupational restrictions Take note of Dir 94/33/EC on the protection of young people at work.

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer not regulated

Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC not regulated

Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals not regulated

Substances of very high concern (SVHC) This product does not contain substances of very high concern above the respective regulatory limit (> 0.1 % (w/w) Regulation (EC) No 1907/2006 (REACH), Article 57).

*National legislation*

Storage class 10 - 13

**15.2 Chemical Safety Assessment**

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

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**SECTION 16. Other information**

**Full text of H-Statements referred to under sections 2 and 3.**

|      |  |
|------|--|
| H226 | Flammable liquid and vapour.             |
| H290 | May be corrosive to metals.              |
| H302 | Harmful if swallowed.                    |
| H314 | Causes severe skin burns and eye damage. |
| H332 | Harmful if inhaled.                      |

**Full text of R-phrases referred to under sections 2 and 3**

|        |   |
|--------|---|
| R10    | Flammable.                              |
| R20/22 | Harmful by inhalation and if swallowed. |
| R34    | Causes burns.                           |
| R35    | Causes severe burns.                    |

**Training advice**

Provide adequate information, instruction and training for operators.

**Labelling (67/548/EEC or 1999/45/EC)**

**Key or legend to abbreviations and acronyms used in the safety data sheet**

Used abbreviations and acronyms can be looked up at [www.wikipedia.org](http://www.wikipedia.org).

**Regional representation**

This information is given on the authorised Safety Data Sheet for your country.

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*The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of any properties of the product.*