

## Manufacturer

AJ Innuscreen GmbH  
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## Distributor

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Konrad-Zuse-Strasse 1  
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## Summary

# Material Safety Data Sheet

Product: **innuPREP Plant DNA Kit**

Ref. No.: 845-KS-1060010

845-KS-1060050

845-KS-1060250

July 18, 2017

# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 25.01.2016

Revision: 25.01.2016

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

#### 1.1 Product identifier

**Trade name: Lysis Solution SLS**

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory chemicals**Uses advised against:** No further information available.

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

**Manufacturer/Supplier:**

AJ Innuscreen GmbH  
Biotechnologie Campus Berlin-Buch  
Robert-Rössle-Straße 10  
13125 Berlin  
Germany  
Tel.: +49 (0) 30 9489-3380  
Fax: +49 (0) 30 9489-3381  
E-Mail: info@aj-innuscreen.de  
Internet: www.aj-innuscreen.de

**Further information obtainable from:** AJ Innuscreen GmbH

#### 1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale  
Mathildenstraße 1  
79106 Freiburg  
Germany  
Tel.: +49 (0) 761 19 240  
Fax: +49 (0) 761 270 44 570  
E-Mail: giftinfo@uniklinik-freiburg.de  
Internet: www.giftberatung.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008:**

GHS09 environment

Aquatic Acute 1 H400 Very toxic to aquatic life.



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 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:**

GHS07 GHS09

**Signal word:** Warning

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**Hazard-determining components of labelling:**ammonium chloride  
cetrimonium bromide**Hazard statements:**H319 Causes serious eye irritation.  
H400 Very toxic to aquatic life.**Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P273 Avoid release to the environment.  
 P264 Wash thoroughly after handling.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards:****Results of PBT and vPvB assessment:**PBT: Not applicable.  
vPvB: Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

|                   |  |         |
|-------------------|--|---------|
| CAS: 12125-02-9   | ammonium chloride  | 10-<25% |
| EINECS: 235-186-4 | ⚠ Acute Tox. 4, H302; Eye Irrit. 2, H319   |         |
| CAS: 57-09-0      | cetrimonium bromide  | 1-<2.5% |
| EINECS: 200-311-3 | ⚠ STOT RE 2, H373; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; STOT SE 3, H335 |         |

**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures:****General information:**Take affected persons out into the fresh air.  
Do not leave affected persons unattended.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**Rinse opened eye for several minutes under running water.  
Call a doctor immediately.**After swallowing:** Call a doctor immediately.**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.

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### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media:

##### Suitable extinguishing agents:

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.

#### 5.3 Advice for firefighters:

**Protective equipment:** Do not inhale explosion gases or combustion gases.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

#### 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

#### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling:** Store in cool, dry place in tightly closed receptacles.

**Information about fire - and explosion protection:** No special measures required.

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

##### Storage:

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from foodstuffs.

**Further information about storage conditions:** None.

**7.3 Specific end use(s):** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

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

#### 8.1 Control parameters:

##### Ingredients with limit values that require monitoring at the workplace:

##### 12125-02-9 ammonium chloride

WEL Short-term value: 20 mg/m<sup>3</sup>

Long-term value: 10 mg/m<sup>3</sup>

#### 8.2 Exposure controls:

##### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:** Protective gloves

##### 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

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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.

**Eye protection:** Tightly sealed goggles

### SECTION 9: Physical and chemical properties

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

##### General Information:

##### Appearance:

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Fluid           |
| <b>Colour:</b>          | Colourless      |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |

**pH-value:** 8.0

##### Change in condition:

|                                     |        |
|-------------------------------------|--------|
| <b>Melting point/Melting range:</b> | 0 °C   |
| <b>Boiling point/Boiling range:</b> | 100 °C |

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

##### Ignition temperature:

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

##### Explosion limits:

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

**Vapour pressure at 20 °C:** 23 hPa

**Density:** Not determined.

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in / Miscibility with water:**

Fully miscible.

**Partition coefficient (n-octanol/water):** Not determined.

##### Viscosity:

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

**9.2 Other information:** No further relevant information available.

### SECTION 10: Stability and reactivity

**10.1 Reactivity:** No further relevant information available.

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**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:** Carbon monoxide and carbon dioxide**SECTION 11: Toxicological information****11.1 Information on toxicological effects:****Acute toxicity** Based on available data, the classification criteria are not met.**LD/LC50 values relevant for classification:****12125-02-9 ammonium chloride**

Oral LD50 1650 mg/kg (rat)

**Primary irritant effect:****Skin corrosion/irritation** Based on available data, the classification criteria are not met.**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure** Based on available data, the classification criteria are not met.**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity:****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability:** No further relevant information available.**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 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

**12.5 Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.

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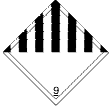

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### SECTION 14: Transport information

|  |   |
|--|---|
| <b>14.1 UN-Number:</b>   | UN3082  |
| <b>ADR, IMDG, IATA</b>   |   |
| <b>14.2 UN proper shipping name:</b>   | 3082 ENVIRONMENTALLY HAZARDOUS  |
| <b>ADR</b>   | SUBSTANCE, LIQUID, N.O.S. (cetrimonium bromide)   |
| <b>IMDG</b>  | ENVIRONMENTALLY HAZARDOUS SUBSTANCE,<br>LIQUID, N.O.S. (cetrimonium bromide), MARINE<br>POLLUTANT |
| <b>IATA</b>  | Environmentally hazardous substance, liquid, n.o.s.<br>(cetrimonium bromide)                      |
| <b>14.3 Transport hazard class(es):</b>  |   |
| <b>ADR, IMDG, IATA</b>   |   |
|   |   |
|   |   |
| <b>Class:</b>  | 9 Miscellaneous dangerous substances and articles.  |
| <b>Label:</b>  | 9   |
| <b>14.4 Packing group:</b>   | III   |
| <b>ADR, IMDG, IATA</b>   |   |
| <b>14.5 Environmental hazards:</b>   | Product contains environmentally hazardous<br>substances: cetrimonium bromide                     |
| <b>Marine pollutant:</b>   | Symbol (fish and tree)  |
| <b>Special marking (ADR):</b>  | Symbol (fish and tree)  |
| <b>Special marking (IATA):</b>   | Symbol (fish and tree)  |
| <b>14.6 Special precautions for user:</b>  | Warning: Miscellaneous dangerous substances and<br>articles.                                      |
| <b>Danger code (Kemler):</b>   | 90  |
| <b>EMS Number:</b>   | F-A,S-F   |
| <b>Stowage Category</b>  | A   |
| <b>14.7 Transport in bulk according to Annex II of<br/>Marpol and the IBC Code</b> | Not applicable.   |

#### Transport/Additional information:

|                                 |   |
|---------------------------------|---|
| <b>ADR</b>                      |   |
| <b>Limited quantities (LQ):</b> | 5L  |
| <b>Transport category:</b>      | 3   |
| <b>Tunnel restriction code:</b> | E   |
| <b>UN "Model Regulation":</b>   | UN 3082 ENVIRONMENTALLY HAZARDOUS<br>SUBSTANCE, LIQUID, N.O.S. (CETRIMONIUM<br>BROMIDE), 9, III |

### SECTION 15: Regulatory information

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

No further relevant information available.

#### 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### SECTION 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:**

H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H335 May cause respiratory irritation.  
H373 May cause damage to organs through prolonged or repeated exposure.  
H400 Very toxic to aquatic life.

**Department issuing SDS:**

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Fax. +49 (0) 202 2575701  
Email: mail@adeego.de  
www.adeego.de

**Contact:** Dr. Axel Deeg**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2  
Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1

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

#### 1.1 Product identifier

**Trade name:** Lysis Solution OPT

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory chemicals

**Uses advised against:** No further information available.

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

##### Manufacturer/Supplier:

AJ Innuscreen GmbH  
Biotechnologie Campus Berlin-Buch  
Robert-Rössle-Straße 10  
13125 Berlin  
Germany  
Tel.: +49 (0) 30 9489-3380  
Fax: +49 (0) 30 9489-3381  
E-Mail: info@aj-innuscreen.de  
Internet: www.aj-innuscreen.de

**Further information obtainable from:** AJ Innuscreen GmbH

#### 1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale  
Mathildenstraße 1  
79106 Freiburg  
Germany  
Tel.: +49 (0) 761 19 240  
Fax: +49 (0) 761 270 44 570  
E-Mail: giftinfo@uniklinik-freiburg.de  
Internet: www.giftberatung.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008:**

The product is not classified according to the CLP regulation.

#### 2.2 Label elements:

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

**Hazard pictograms:** Void

**Signal word:** Void

**Hazard statements:** Void

#### 2.3 Other hazards:

**Results of PBT and vPvB assessment:**

**PBT:** Not applicable.

**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.

##### Dangerous components:

|                   |  |         |
|-------------------|--|---------|
| CAS: 151-21-3     | sodium dodecyl sulphate  | 1-≤2.5% |
| EINECS: 205-788-1 | ☞ Eye Dam. 1, H318; ☞ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 |         |

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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

**4.1 Description of first aid measures:****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

**After swallowing:** Call a doctor immediately.**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.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media:****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:** Do not inhale explosion gases or combustion gases.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.**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 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling:** Store in cool, dry place in tightly closed receptacles.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:** None.**7.3 Specific end use(s):** No further relevant information available.

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

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

##### 8.1 Control parameters:

##### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### 8.2 Exposure controls:

##### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:** Protective gloves

##### 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.

**Eye protection:** Tightly sealed goggles

#### SECTION 9: Physical and chemical properties

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

##### General Information:

##### Appearance:

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Fluid           |
| <b>Colour:</b>          | Clear           |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |

**pH-value at 20 °C:** 8.0

##### Change in condition:

|                                     |        |
|-------------------------------------|--------|
| <b>Melting point/Melting range:</b> | 0 °C   |
| <b>Boiling point/Boiling range:</b> | 100 °C |

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

##### Ignition temperature:

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

##### Explosion limits:

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

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|   |  |
|---|--|
| <b>Vapour pressure at 20 °C:</b>                | 23 hPa                                     |
| <b>Density:</b>                                 | Not determined.                            |
| <b>Relative density:</b>                        | Not determined.                            |
| <b>Vapour density:</b>                          | Not determined.                            |
| <b>Evaporation rate:</b>                        | Not determined.                            |
| <b>Solubility in / Miscibility with water:</b>  | Fully miscible.                            |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                 | Not determined.                            |
| <b>Kinematic:</b>                               | Not determined.                            |
| <b>9.2 Other information:</b>                   | No further relevant information available. |

#### SECTION 10: Stability and reactivity

- 10.1 Reactivity:** No further relevant information available.
- 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:** Carbon monoxide and carbon dioxide

#### SECTION 11: Toxicological information

- 11.1 Information on toxicological effects:**
- Acute toxicity** Based on available data, the classification criteria are not met.
- Primary irritant effect:**
- Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- Carcinogenicity** Based on available data, the classification criteria are not met.
- Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard** Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

- 12.1 Toxicity:**
- Aquatic toxicity:** No further relevant information available.
- 12.2 Persistence and degradability:** No further relevant information available.
- 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 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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

PBT: Not applicable.

vPvB: Not applicable.

**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number:**

ADR, ADN, IMDG, IATA Void

**14.2 UN proper shipping name:**

ADR, ADN, IMDG, IATA Void

**14.3 Transport hazard class(es):**ADR, ADN, IMDG, IATA  
Class: Void**14.4 Packing group:**

ADR, IMDG, IATA Void

**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user:** Not applicable.**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.**UN "Model Regulation":** Void**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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:**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:**

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700

Fax. +49 (0) 202 2575701

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## Safety data sheet according to 1907/2006/EC, Article 31

Printing date 25.01.2016

Revision: 25.01.2016

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**Trade name: Lysis Solution OPT**

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Email: [mail@adeego.de](mailto:mail@adeego.de)[www.adeego.de](http://www.adeego.de)**Contact:** Dr. Axel Deeg**Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

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

#### 1.1 Product identifier

**Trade name:** Lysis Solution CBV

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory chemicals**Uses advised against:** No further information available.

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

**Manufacturer/Supplier:**

AJ Innuscreen GmbH  
Biotechnologie Campus Berlin-Buch  
Robert-Rössle-Straße 10  
13125 Berlin  
Germany  
Tel.: +49 (0) 30 9489-3380  
Fax: +49 (0) 30 9489-3381  
E-Mail: info@aj-innuscreen.de  
Internet: www.aj-innuscreen.de

**Further information obtainable from:** AJ Innuscreen GmbH

#### 1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale  
Mathildenstraße 1  
79106 Freiburg  
Germany  
Tel.: +49 (0) 761 19 240  
Fax: +49 (0) 761 270 44 570  
E-Mail: giftinfo@uniklinik-freiburg.de  
Internet: www.giftberatung.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008:**

The product is not classified according to the CLP regulation.

#### 2.2 Label elements:

**Labelling according to Regulation (EC) No 1272/2008:** Void**Hazard pictograms:** Void**Signal word:** Void**Hazard statements:** Void

#### 2.3 Other hazards:

**Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

#### 3.2 Chemical characterisation: Mixtures

**Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

|                   |  |        |
|-------------------|--|--------|
| CAS: 151-21-3     | sodium dodecyl sulphate  | 5-<10% |
| EINECS: 205-788-1 | ☞ Eye Dam. 1, H318; ☞ Acute Tox. 4, H302; Skin Irrit. 2, H315; Aquatic Chronic 3, H412 |        |

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## Safety data sheet

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**Trade name: Lysis Solution CBV**

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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

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### SECTION 4: First aid measures

**4.1 Description of first aid measures:****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

**After swallowing:** Call a doctor immediately.**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.

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### SECTION 5: Firefighting measures

**5.1 Extinguishing media:****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:** Do not inhale explosion gases or combustion gases.

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### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.**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 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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### SECTION 7: Handling and storage

**7.1 Precautions for safe handling:** Store in cool, dry place in tightly closed receptacles.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Not required.**Further information about storage conditions:** None.**7.3 Specific end use(s):** No further relevant information available.

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

Trade name: Lysis Solution CBV

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

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

##### 8.1 Control parameters:

##### Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

##### 8.2 Exposure controls:

##### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:** Protective gloves

##### 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.

**Eye protection:** Tightly sealed goggles

#### SECTION 9: Physical and chemical properties

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

##### General Information:

##### Appearance:

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Fluid           |
| <b>Colour:</b>          | Clear           |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |

**pH-value at 20 °C:** 8.0

##### Change in condition:

|                                     |        |
|-------------------------------------|--------|
| <b>Melting point/Melting range:</b> | 0 °C   |
| <b>Boiling point/Boiling range:</b> | 100 °C |

**Flash point:** Not applicable.

**Flammability (solid, gaseous):** Not applicable.

##### Ignition temperature:

**Decomposition temperature:** Not determined.

**Self-igniting:** Product is not selfigniting.

**Danger of explosion:** Product does not present an explosion hazard.

##### Explosion limits:

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

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Trade name: Lysis Solution CBV

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|   |  |
|---|--|
| <b>Vapour pressure at 20 °C:</b>                | 23 hPa                                     |
| <b>Density:</b>                                 | Not determined.                            |
| <b>Relative density:</b>                        | Not determined.                            |
| <b>Vapour density:</b>                          | Not determined.                            |
| <b>Evaporation rate:</b>                        | Not determined.                            |
| <b>Solubility in / Miscibility with water:</b>  | Fully miscible.                            |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.                            |
| <b>Viscosity:</b>                               |  |
| <b>Dynamic:</b>                                 | Not determined.                            |
| <b>Kinematic:</b>                               | Not determined.                            |
| <b>9.2 Other information:</b>                   | No further relevant information available. |

#### SECTION 10: Stability and reactivity

- 10.1 Reactivity:** No further relevant information available.
- 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:** Carbon monoxide and carbon dioxide

#### SECTION 11: Toxicological information

- 11.1 Information on toxicological effects:**
- Acute toxicity** Based on available data, the classification criteria are not met.
- Primary irritant effect:**
- Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**
- Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- Carcinogenicity** Based on available data, the classification criteria are not met.
- Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure** Based on available data, the classification criteria are not met.
- STOT-repeated exposure** Based on available data, the classification criteria are not met.
- Aspiration hazard** Based on available data, the classification criteria are not met.

#### SECTION 12: Ecological information

- 12.1 Toxicity:**
- Aquatic toxicity:** No further relevant information available.
- 12.2 Persistence and degradability:** No further relevant information available.
- 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 2 (German Regulation) (Self-assessment): hazardous for water  
Do not allow product to reach ground water, water course or sewage system.  
Danger to drinking water if even small quantities leak into the ground.

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

Trade name: Lysis Solution CBV

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

PBT: Not applicable.

vPvB: Not applicable.

**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number:**

ADR, ADN, IMDG, IATA Void

**14.2 UN proper shipping name:**

ADR, ADN, IMDG, IATA Void

**14.3 Transport hazard class(es):**ADR, ADN, IMDG, IATA  
Class: Void**14.4 Packing group:**

ADR, IMDG, IATA Void

**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user:** Not applicable.**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.**UN "Model Regulation":** Void**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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:**

H302 Harmful if swallowed.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

**Department issuing SDS:**

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700

Fax. +49 (0) 202 2575701

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

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**Trade name: Lysis Solution CBV**

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(Contd. of page 5)

Email: [mail@adeego.de](mailto:mail@adeego.de)[www.adeego.de](http://www.adeego.de)**Contact:** Dr. Axel Deeg**Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3

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# Safety data sheet

## according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

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

#### 1.1 Product identifier

**Trade name:** Precipitation Buffer P

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory chemicals**Uses advised against:** No further information available.

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

**Manufacturer/Supplier:**

AJ Innuscreen GmbH  
Biotechnologie Campus Berlin-Buch  
Robert-Rössle-Straße 10  
13125 Berlin  
Germany  
Tel.: +49 (0) 30 9489-3380  
Fax: +49 (0) 30 9489-3381  
E-Mail: info@aj-innuscreen.de  
Internet: www.aj-innuscreen.de

**Further information obtainable from:** AJ Innuscreen GmbH

#### 1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale  
Mathildenstraße 1  
79106 Freiburg  
Germany  
Tel.: +49 (0) 761 19 240  
Fax: +49 (0) 761 270 44 570  
E-Mail: giftinfo@uniklinik-freiburg.de  
Internet: www.giftberatung.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

**Classification according to Regulation (EC) No 1272/2008:**

GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

#### 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:**

GHS07

**Signal word:** Warning**Hazard-determining components of labelling:**

acetic acid

**Hazard statements:**

H315 Causes skin irritation.

(Contd. on page 2)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 26.01.2016

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**Trade name: Precipitation Buffer P**

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H319 Causes serious eye irritation.

**Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P362 Take off contaminated clothing.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of water.

**2.3 Other hazards:****Results of PBT and vPvB assessment:**

PBT: Not applicable.

vPvB: Not applicable.

**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 64-19-7 acetic acid

10-&lt;25%

EINECS: 200-580-7  Flam. Liq. 3, H226;  Skin Corr. 1A, H314**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures:****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

**After swallowing:** Call a doctor immediately.**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.

**SECTION 5: Firefighting measures****5.1 Extinguishing media:****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire.

**5.3 Advice for firefighters:****Protective equipment:** Do not inhale explosion gases or combustion gases.

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

**Trade name: Precipitation Buffer P**

(Contd. of page 2)

#### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.

**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.

**6.3 Methods and material for containment and cleaning up:**

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### SECTION 7: Handling and storage

**7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Store in cool, dry place in tightly closed receptacles.

**Information about fire - and explosion protection:** Keep ignition sources away - Do not smoke.

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

**Storage:**

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:**

Do not store together with alkalis (caustic solutions).

**Further information about storage conditions:**

Keep container tightly sealed.

Store receptacle in a well ventilated area.

**7.3 Specific end use(s):** No further relevant information available.

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

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

**8.1 Control parameters:**

**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Exposure controls:**

**Personal protective equipment:**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

**Protection of hands:** Protective gloves

**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.

(Contd. on page 4)

## Safety data sheet

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Trade name: Precipitation Buffer P

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Eye protection: Tightly sealed goggles

#### SECTION 9: Physical and chemical properties

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

###### General Information:

###### Appearance:

|                    |                 |
|--------------------|-----------------|
| Form:              | Fluid           |
| Colour:            | Clear           |
| Odour:             | Characteristic  |
| Odour threshold:   | Not determined. |
| pH-value at 20 °C: | 5.2             |

###### Change in condition:

|                              |               |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | 100 °C        |

Flash point: Not applicable.

Flammability (solid, gaseous): Not applicable.

Ignition temperature: 485 °C

Decomposition temperature: Not determined.

Self-igniting: Product is not selfigniting.

Danger of explosion: Product does not present an explosion hazard.

###### Explosion limits:

|        |                 |
|--------|-----------------|
| Lower: | Not determined. |
| Upper: | Not determined. |

Vapour pressure at 20 °C: 23 hPa

Density: Not determined.

Relative density: Not determined.

Vapour density: Not determined.

Evaporation rate: Not determined.

Solubility in / Miscibility with water:

Soluble.

Partition coefficient (n-octanol/water): Not determined.

###### Viscosity:

|            |                 |
|------------|-----------------|
| Dynamic:   | Not determined. |
| Kinematic: | Not determined. |

9.2 Other information: No further relevant information available.

#### SECTION 10: Stability and reactivity

10.1 Reactivity: No further relevant information available.

##### 10.2 Chemical stability:

###### Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions: Develops corrosive gases/fumes.

10.4 Conditions to avoid: No further relevant information available.

10.5 Incompatible materials: No further relevant information available.

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## Safety data sheet

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Printing date 26.01.2016

Revision: 26.01.2016

**Trade name: Precipitation Buffer P**

(Contd. of page 4)

**10.6 Hazardous decomposition products:**

Carbon monoxide and carbon dioxide  
Corrosive gases/vapours

**SECTION 11: Toxicological information****11.1 Information on toxicological effects:**

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:****64-19-7 acetic acid**

Oral LD50 3310 mg/kg (rat)

Dermal LD50 1060 mg/kg (rabbit)

**Primary irritant effect:****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**SECTION 12: Ecological information****12.1 Toxicity:**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**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.

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

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

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

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:**

**Recommendation:** Disposal must be made according to official regulations.

(Contd. on page 6)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2016

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Trade name: Precipitation Buffer P

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### SECTION 14: Transport information

**14.1 UN-Number:**  
ADR, IMDG, IATA UN2790

**14.2 UN proper shipping name:**  
ADR 2790 ACETIC ACID SOLUTION  
IMDG ACETIC ACID SOLUTION  
IATA Acetic acid solution

**14.3 Transport hazard class(es):**  
ADR, IMDG, IATA



**Class:** 8 Corrosive substances.  
**Label:** 8

**14.4 Packing group:**  
ADR, IMDG, IATA III

**14.5 Environmental hazards:**  
**Marine pollutant:** No

**14.6 Special precautions for user:** Warning: Corrosive substances.  
**Danger code (Kemler):** 80  
**EMS Number:** F-A,S-B  
**Segregation groups:** Acids  
**Stowage Category:** A

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

#### Transport/Additional information:

ADR

**Limited quantities (LQ):** 5L  
**Transport category:** 3  
**Tunnel restriction code:** E  
**UN "Model Regulation":** UN 2790 ACETIC ACID SOLUTION, 8, III

### SECTION 15: Regulatory information

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

No further relevant information available.

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### SECTION 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:

H226 Flammable liquid and vapour.

H314 Causes severe skin burns and eye damage.

#### Department issuing SDS:

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700

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**Trade name: Precipitation Buffer P**

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Fax. +49 (0) 202 2575701

Email: mail@adeego.de

www.adeego.de

**Contact:** Dr. Axel Deeg**Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 26.01.2016

Revision: 26.01.2016

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

#### 1.1 Product identifier

Trade name: Binding Solution SBS

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory chemicals

**Uses advised against:** No further information available.

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

##### Manufacturer/Supplier:

AJ Innuscreen GmbH  
Biotechnologie Campus Berlin-Buch  
Robert-Rössle-Straße 10  
13125 Berlin  
Germany  
Tel.: +49 (0) 30 9489-3380  
Fax: +49 (0) 30 9489-3381  
E-Mail: info@aj-innuscreen.de  
Internet: www.aj-innuscreen.de

**Further information obtainable from:** AJ Innuscreen GmbH

#### 1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale  
Mathildenstraße 1  
79106 Freiburg  
Germany  
Tel.: +49 (0) 761 19 240  
Fax: +49 (0) 761 270 44 570  
E-Mail: giftinfo@uniklinik-freiburg.de  
Internet: www.giftberatung.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS02 flame

Flam. Liq. 2      H225 Highly flammable liquid and vapour.



GHS05 corrosion

Eye Dam. 1      H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2      H315 Causes skin irritation.  
STOT SE 3      H336 May cause drowsiness or dizziness.

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### according to 1907/2006/EC, Article 31

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Trade name: Binding Solution SBS

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**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:**

GHS02 GHS05 GHS07 GHS09

**Signal word:** Danger**Hazard-determining components of labelling:**polyethylene glycol octylphenol ether  
propan-2-ol**Hazard statements:**H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.**Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.  
 P102 Keep out of reach of children.  
 P103 Read label before use.  
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.  
 P405 Store locked up.  
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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

## SECTION 3: Composition/information on ingredients

**3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

|                   |  |         |
|-------------------|--|---------|
| CAS: 67-63-0      | propan-2-ol  | 50-100% |
| EINECS: 200-661-7 | Flam. Liq. 2, H225;  Eye Irrit. 2, H319; STOT SE 3, H336                             |         |
| CAS: 9002-93-1    | polyethylene glycol octylphenol ether  | 25-50%  |
|                   | Eye Dam. 1, H318;  Aquatic Chronic 2, H411;  Acute Tox. 4, H302; Skin Irrit. 2, H315 |         |

**SVHC:**

9002-93-1 polyethylene glycol octylphenol ether

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**Trade name: Binding Solution SBS**

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**Additional information:** For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

##### 4.1 Description of first aid measures:

**General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

**After swallowing:** Call a doctor immediately.

##### 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.

#### SECTION 5: Firefighting measures

##### 5.1 Extinguishing media:

**Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet

##### 5.2 Special hazards arising from the substance or mixture:

 Can form explosive gas-air mixtures.

##### 5.3 Advice for firefighters:

**Protective equipment:** Do not inhale explosion gases or combustion gases.

#### SECTION 6: Accidental release measures

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

Ensure adequate ventilation.

Keep away from ignition sources.

Wear protective clothing.

##### 6.2 Environmental precautions:

 Do not allow product to reach sewage system or any water course.

##### 6.3 Methods and material for containment and cleaning up:

Ensure adequate ventilation.

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

##### 6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### SECTION 7: Handling and storage

##### 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Store in cool, dry place in tightly closed receptacles.

**Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Fumes can combine with air to form an explosive mixture.

Flammable gas-air mixtures may form in empty receptacles.

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### according to 1907/2006/EC, Article 31

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Trade name: Binding Solution SBS

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**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:**

Store away from foodstuffs.

Store away from oxidising agents.

**Further information about storage conditions:**

Keep container tightly sealed.

Store receptacle in a well ventilated area.

**7.3 Specific end use(s):** No further relevant information available.**SECTION 8: Exposure controls/personal protection****Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters:****Ingredients with limit values that require monitoring at the workplace:****67-63-0 propan-2-ol**WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppmLong-term value: 999 mg/m<sup>3</sup>, 400 ppm**8.2 Exposure controls:****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.**Protection of hands:** Protective gloves**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.

**Eye protection:** Tightly sealed goggles**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties:****General Information:****Appearance:**

|                         |                 |
|-------------------------|-----------------|
| <b>Form:</b>            | Fluid           |
| <b>Colour:</b>          | Clear           |
| <b>Odour:</b>           | Characteristic  |
| <b>Odour threshold:</b> | Not determined. |
| <b>pH-value:</b>        | Not determined. |

**Change in condition:**

|                                     |               |
|-------------------------------------|---------------|
| <b>Melting point/Melting range:</b> | Undetermined. |
| <b>Boiling point/Boiling range:</b> | 82 °C         |

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|   |   |
|---|---|
| <b>Flash point:</b>                             | < 21 °C   |
| <b>Flammability (solid, gaseous):</b>           | Not applicable.   |
| <b>Ignition temperature:</b>                    | 425 °C  |
| <b>Decomposition temperature:</b>               | Not determined.   |
| <b>Self-igniting:</b>                           | Product is not selfigniting.  |
| <b>Danger of explosion:</b>                     | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| <b>Explosion limits:</b>                        |   |
| <b>Lower:</b>                                   | 2.0 Vol %   |
| <b>Upper:</b>                                   | 12.0 Vol %  |
| <b>Vapour pressure at 20 °C:</b>                | 43 hPa  |
| <b>Density:</b>                                 | Not determined.   |
| <b>Relative density:</b>                        | Not determined.   |
| <b>Vapour density:</b>                          | Not determined.   |
| <b>Evaporation rate:</b>                        | Not determined.   |
| <b>Solubility in / Miscibility with water:</b>  | Soluble.  |
| <b>Partition coefficient (n-octanol/water):</b> | Not determined.   |
| <b>Viscosity:</b>                               |   |
| <b>Dynamic:</b>                                 | Not determined.   |
| <b>Kinematic:</b>                               | Not determined.   |
| <b>9.2 Other information:</b>                   | No further relevant information available.  |

#### SECTION 10: Stability and reactivity

**10.1 Reactivity:** No further relevant information available.

**10.2 Chemical stability:**

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**10.3 Possibility of hazardous reactions:** Forms explosive gas mixture with air.

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

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

**10.6 Hazardous decomposition products:** Carbon monoxide and carbon dioxide

#### SECTION 11: Toxicological information

**11.1 Information on toxicological effects:**

**Acute toxicity** Based on available data, the classification criteria are not met.

**LD/LC50 values relevant for classification:**

**67-63-0 propan-2-ol**

Oral LD50 5045 mg/kg (rat)

Dermal LD50 12800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

**9002-93-1 polyethylene glycol octylphenol ether**

Oral LD50 1800 mg/kg (rat)

Dermal LD50 8000 mg/kg (rabbit)

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**Primary irritant effect:****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):****Germ cell mutagenicity** Based on available data, the classification criteria are not met.**Carcinogenicity** Based on available data, the classification criteria are not met.**Reproductive toxicity** Based on available data, the classification criteria are not met.**STOT-single exposure**

May cause drowsiness or dizziness.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.**Aspiration hazard** Based on available data, the classification criteria are not met.**SECTION 12: Ecological information****12.1 Toxicity:****Aquatic toxicity:** No further relevant information available.**12.2 Persistence and degradability:** No further relevant information available.**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.

**12.5 Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects:** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods:****Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

**European waste catalogue:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number:****ADR, IMDG, IATA**

UN1219

**14.2 UN proper shipping name:****ADR**1219 ISOPROPANOL (ISOPROPYL ALCOHOL),  
ENVIRONMENTALLY HAZARDOUS**IMDG**ISOPROPANOL (ISOPROPYL ALCOHOL), MARINE  
POLLUTANT**IATA**

Isopropanol

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Trade name: Binding Solution SBS

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**14.3 Transport hazard class(es):****ADR, IMDG**

**Class:** 3 Flammable liquids.  
**Label:** 3

**IATA**

**Class:** 3 Flammable liquids.  
**Label:** 3

**14.4 Packing group:**

ADR, IMDG, IATA

II

**14.5 Environmental hazards:****Marine pollutant:**

Symbol (fish and tree)

**Special marking (ADR):**

Symbol (fish and tree)

**14.6 Special precautions for user:**

Warning: Flammable liquids.

**Danger code (Kemler):**

33

**EMS Number:**

F-E,S-D

**Stowage Category**

B

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

Not applicable.

**Transport/Additional information:****ADR****Limited quantities (LQ):** 1L**Transport category:** 2**Tunnel restriction code:** D/E**UN "Model Regulation":** UN 1219 ISOPROPANOL (ISOPROPYL ALCOHOL), 3, II, ENVIRONMENTALLY HAZARDOUS**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:****National regulations:****Other regulations, limitations and prohibitive regulations:****Substances of very high concern (SVHC) according to REACH, Article 57:**

9002-93-1 polyethylene glycol octylphenol ether

**15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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:**

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

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**Trade name: Binding Solution SBS**

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H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

**Department issuing SDS:**

ADEEGO GmbH  
Wildsteig 4A  
D-42113 Wuppertal  
Tel. +49 (0) 202 2575700  
Fax. +49 (0) 202 2575701  
Email: mail@adeego.de  
www.adeego.de

**Contact:** Dr. Axel Deeg**Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonised System of Classification and Labelling of Chemicals  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative  
Flam. Liq. 2: Flammable liquids, Hazard Category 2  
Acute Tox. 4: Acute toxicity, Hazard Category 4  
Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2  
Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2  
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3  
Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2017

Revision: 12.05.2017

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

#### 1.1 Product identifier

Trade name: Proteinase K

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

No further relevant information available.

**Application of the substance / the preparation:** Laboratory chemicals

**Uses advised against:** No further information available.

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

##### Manufacturer/Supplier:

AJ Innuscreen GmbH  
Biotechnologie Campus Berlin-Buch  
Robert-Rössle-Straße 10  
13125 Berlin  
Germany  
Tel.: +49 (0) 30 9489-3380  
Fax: +49 (0) 30 9489-3381  
E-Mail: info@aj-innuscreen.de  
Internet: www.aj-innuscreen.de

**Further information obtainable from:** AJ Innuscreen GmbH

#### 1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informationen-Zentrale  
Mathildenstraße 1  
79106 Freiburg  
Germany  
Tel.: +49 (0) 761 19 240  
Fax: +49 (0) 761 270 44 570  
E-Mail: giftinfo@uniklinik-freiburg.de  
Internet: www.giftberatung.de

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No 1272/2008:



GHS08 health hazard

Resp. Sens. 1 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.  
Skin Sens. 1 H317 May cause an allergic skin reaction.  
STOT SE 3 H335 May cause respiratory irritation.

#### 2.2 Label elements:

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

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

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## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.05.2017

Revision: 12.05.2017

Trade name: Proteinase K

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**Hazard pictograms:**

GHS07 GHS08

**Signal word:** Danger**Hazard-determining components of labelling:**

proteinase, engyodontium album

**Hazard statements:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

**Precautionary statements:**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.



P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**2.3 Other hazards:****Results of PBT and vPvB assessment:****PBT:** Not applicable.**vPvB:** Not applicable.**SECTION 3: Composition/information on ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 39450-01-6 proteinase, engyodontium album 50-100%

EINECS: 254-457-8  Resp. Sens. 1, H334;  Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335**Additional information:** For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****4.1 Description of first aid measures:****General information:**

Take affected persons out into the fresh air.

Do not leave affected persons unattended.

**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** Immediately wash with water and soap and rinse thoroughly.**After eye contact:**

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2017

Revision: 12.05.2017

**Trade name: Proteinase K**

(Contd. of page 2)

**After swallowing:** Call a doctor immediately.**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.

### SECTION 5: Firefighting measures

**5.1 Extinguishing media:****Suitable extinguishing agents:**CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**For safety reasons unsuitable extinguishing agents:** Water with full jet**5.2 Special hazards arising from the substance or mixture:** No further relevant information available.**5.3 Advice for firefighters:****Protective equipment:** Do not inhale explosion gases or combustion gases.

### SECTION 6: Accidental release measures

**6.1 Personal precautions, protective equipment and emergency procedures:** Wear protective clothing.**6.2 Environmental precautions:** Do not allow product to reach sewage system or any water course.**6.3 Methods and material for containment and cleaning up:** Pick up mechanically.**6.4 Reference to other sections:**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### SECTION 7: Handling and storage

**7.1 Precautions for safe handling:** Store in cool, dry place in tightly closed receptacles.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities:****Storage:****Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.**Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:** None.**7.3 Specific end use(s):** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

**Additional information about design of technical facilities:** No further data; see item 7.**8.1 Control parameters:****Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**8.2 Exposure controls:****Personal protective equipment:****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

**Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.**Protection of hands:** Protective gloves

(Contd. on page 4)

## Safety data sheet

### according to 1907/2006/EC, Article 31

Printing date 12.05.2017

Revision: 12.05.2017

**Trade name: Proteinase K**

(Contd. of page 3)

**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.

**Eye protection:** Tightly sealed goggles

### SECTION 9: Physical and chemical properties

**9.1 Information on basic physical and chemical properties:****General Information:****Appearance:**

|                         |                           |
|-------------------------|---------------------------|
| <b>Form:</b>            | Solid                     |
| <b>Colour:</b>          | White                     |
| <b>Odour:</b>           | Nearly odourless          |
| <b>Odour threshold:</b> | Not determined.           |
| <b>pH-value:</b>        | 6.5 (as aqueous solution) |

**Change in condition:**

|   |               |
|---|---------------|
| <b>Melting point/freezing point:</b>            | Undetermined. |
| <b>Initial boiling point and boiling range:</b> | Undetermined. |

**Flash point:** Not applicable.

**Flammability (solid, gas):** Not applicable.

**Ignition temperature:**

**Decomposition temperature:** Not determined.

**Auto-ignition temperature:** Product is not selfigniting.

**Explosive properties:** Product does not present an explosion hazard.

**Explosion limits:**

|               |                 |
|---------------|-----------------|
| <b>Lower:</b> | Not determined. |
| <b>Upper:</b> | Not determined. |

**Vapour pressure:** Not applicable.

**Density:** Not determined.

**Relative density:** Not determined.

**Vapour density:** Not determined.

**Evaporation rate:** Not determined.

**Solubility in / Miscibility with water:**

Soluble.

**Partition coefficient: n-octanol/water:** Not determined.

**Viscosity:**

|                   |                 |
|-------------------|-----------------|
| <b>Dynamic:</b>   | Not determined. |
| <b>Kinematic:</b> | Not determined. |

**9.2 Other information:** No further relevant information available.

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## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.05.2017

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### SECTION 10: Stability and reactivity

**10.1 Reactivity:** No further relevant information available.

**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:** Carbon monoxide and carbon dioxide

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects:**

**Acute toxicity** Based on available data, the classification criteria are not met.

**Primary irritant effect:**

**Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye irritation.

**Respiratory or skin sensitisation**

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause an allergic skin reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction):**

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

**Carcinogenicity** Based on available data, the classification criteria are not met.

**Reproductive toxicity** Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause respiratory irritation.

**STOT-repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

### SECTION 12: Ecological information

**12.1 Toxicity:**

**Aquatic toxicity:** No further relevant information available.

**12.2 Persistence and degradability:** No further relevant information available.

**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.

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

**PBT:** Not applicable.

**vPvB:** Not applicable.

**12.6 Other adverse effects:** No further relevant information available.

### SECTION 13: Disposal considerations

**13.1 Waste treatment methods:**

**Recommendation:**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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## Safety data sheet

### according to 1907/2006/EC, Article 31

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Revision: 12.05.2017

**Trade name: Proteinase K**

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**European waste catalogue:**

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Uncleaned packaging:****Recommendation:** Disposal must be made according to official regulations.**SECTION 14: Transport information****14.1 UN-Number:**

ADR, ADN, IMDG, IATA Void

**14.2 UN proper shipping name:**

ADR, ADN, IMDG, IATA Void

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

ADR, ADN, IMDG, IATA

**Class:** Void**14.4 Packing group:**

ADR, IMDG, IATA Void

**14.5 Environmental hazards:****Marine pollutant:** No**14.6 Special precautions for user:** Not applicable.**14.7 Transport in bulk according to Annex II of****Marpol and the IBC Code** Not applicable.**UN "Model Regulation":** Void**SECTION 15: Regulatory information****15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**SECTION 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:**

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H335 May cause respiratory irritation.

**Department issuing SDS:**

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D-42113 Wuppertal

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**Contact:** Dr. Axel Deeg**Abbreviations and acronyms:**

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

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

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**Safety data sheet**  
**according to 1907/2006/EC, Article 31**

Printing date 12.05.2017

Revision: 12.05.2017

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**Trade name: Proteinase K**

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PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Resp. Sens. 1: Respiratory sensitisation – Category 1  
Skin Sens. 1: Skin sensitisation – Category 1  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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## Washing Solution MS

15 / May / 2014

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 13125 Berlin/ Germany  
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 Fax: +49 (0) 36 41 / 77-76 77 76

**Distribution:**

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 07745 Jena/ Germany  
 www.bio.analytik-jena.com  
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**German**

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**French**

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**Italian**

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# Washing Solution MS

15 / May / 2014

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**Danish**

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**Dutch**

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**Portuguese**

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Product information

## Elution Buffer

15 / May / 2014

**Manufacturer:**

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