# analytikjena

10 / Dec / 2014

Manufacturer:

AJ Innuscreen GmbH Robert-Rössle-Straße 10 13125 Berlin/ Germany Phone: +49 (0) 36 41 / 77-94 00 Fax: +49 (0) 36 41 / 77-76 77 76

#### Distribution:

Analytik Jena AG Konrad-Zuse-Straße 1 07745 Jena/ Germany www.bio.analytik-jena.com lifescience@analytik-jena.com

## Summary - Material Safety Data Sheet

## Product: innuPREP Bacteria DNA Kit-IPC16

Summary may be subject to change - please inquire for update!

Page 1/8

#### Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 19.08.2014

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

#### Product identifier

Trade name: Content of InnuPure® C16 Strips/Plate A

Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. Application of the substance / the preparation: Buffer Uses advised against: No further information available.

#### 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 **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

#### 2 Hazards identification

Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008:



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



GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.



Acute Tox. 4 H302 Harmful if swallowed.

Skin Irrit. 2 H315 Causes skin irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

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

Xn; Harmful

R22: Harmful if swallowed.

ajinnuscreen

Revision: 19.08.2014

Page 2/8

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

Printing date 19.08.2014

Trade name: Content of InnuPure® C16 Strips/Plate A (Contd. of page 1) Xi; Irritant R38-41: Irritating to skin. Risk of serious damage to eyes. F; Highly flammable R11: Highly flammable. Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data. 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 Signal word: Danger Hazard-determining components of labelling: propan-2-ol polyethylene glycol octylphenol ether quanidinium chloride ethanol Hazard statements: H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness. **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/sparks/open flames/hot surfaces. - No smoking. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P303+P361+P353 IF ON SKIN (or hair): Remove/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. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. Other hazards: Results of PBT and vPvB assessment: **PBT:** Not applicable. vPvB: Not applicable. (Contd. on page 3)

ajinnuscreen

Page 3/8

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

Printing date 19.08.2014

Revision: 19.08.2014

#### Trade name: Content of InnuPure® C16 Strips/Plate A

(Contd. of page 2)

#### 3 Composition/information on ingredients

#### **Chemical characterization: Mixtures**

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

Dangerous comp	ponents:	
CAS: 67-63-0	propan-2-ol	50-100%
EINECS: 200-661	-7 🗙 Xi R36; 👸 F R11	
	R67	
	🚸 Flam. Liq. 2, H225; 🚸 Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 9002-93-1	polyethylene glycol octylphenol ether	25-50%
	🗙 Xn Ř22; 🗙 Xi R41	
	📀 Eye Dam. 1, H318; 🚸 Acute Tox. 4, H302	
CAS: 50-01-1	guanidinium chloride	25-50%
EINECS: 200-002	2-3 🔀 Xn R22; 🗙 Xi R36/38	
	🚯 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 64-17-5	ethanol	50-100%
EINECS: 200-578	B-6 🔥 F R11	
	🔞 Flam. Lig. 2, H225	
SVHC:	• • •	

9002-93-1 polyethylene glycol octylphenol ether

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

#### 4 First aid measures

#### 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.

#### Information for doctor:

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

**Indication of any immediate medical attention and special treatment needed:** No further relevant information available.

No further relevant information available.

#### **5** Firefighting measures

#### Extinguishing media:

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet Special hazards arising from the substance or mixture: Can form explosive gas-air mixtures. Advice for firefighters:

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

(Contd. on page 4)



Page 4/8

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

Printing date 19.08.2014

Revision: 19.08.2014

#### Trade name: Content of InnuPure® C16 Strips/Plate A

(Contd. of page 3)

#### 6 Accidental release measures

**Personal precautions, protective equipment and emergency procedures:** Ensure adequate ventilation Keep away from ignition sources. Wear protective clothing.

**Environmental precautions:** Do not allow product to reach sewage system or any water course. **Methods and material for containment and cleaning up:** 

Ensure adequate ventilation.

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

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.

#### 7 Handling and storage

#### Handling:

#### 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.

#### 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 flammable substances. Further information about storage conditions:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

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

#### 8 Exposure controls/personal protection

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

**Control parameters:** 

Ingredients with limit values that require monitoring at the workplace:

67-63-0 propan-2-ol (50-100%)

WEL Short-term value: 1250 mg/m<sup>3</sup>, 500 ppm Long-term value: 999 mg/m<sup>3</sup>, 400 ppm

#### 64-17-5 ethanol (50-100%)

WEL Long-term value: 1920 mg/m<sup>3</sup>, 1000 ppm

#### 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

Do not inhale gases / fumes / aerosols.

ajinnuscreen

Page 5/8

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

Printing date 19.08.2014

Revision: 19.08.2014

#### Trade name: Content of InnuPure® C16 Strips/Plate A

(Contd. of page 4)

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

#### 9 Physical and chemical properties

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

Appearance: Form: Colour: Odour: Odour threshold:	Fluid Clear Characteristic Not determined.
pH-value:	Not determined.
Change in condition: Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
Flash point:	< 21 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	425 °C
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapour mixtures are possible.
Explosion limits: Lower: Upper:	2.0 Vol % 12.0 Vol %
Vapour pressure at 20 °C:	43 hPa
Density: Relative density: Vapour density: Evaporation rate:	Not determined. Not determined. Not determined. Not determined.
Solubility in / Miscibility with water:	Soluble.
Partition coefficient (n-octanol/water)	: Not determined.
Viscosity: Dynamic:	Not determined. (Contd. on page 6)

Page 6/8

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

Printing date 19.08.2014

Revision: 19.08.2014

(Contd. of page 5)

ajinnuscreen

#### Trade name: Content of InnuPure® C16 Strips/Plate A

Kinematic: Other information: Not determined. No further relevant information available.

#### 10 Stability and reactivity

Reactivity:

Chemical stability:

Thermal decomposition / conditions to be avoided:
No decomposition if used according to specifications.
Possibility of hazardous reactions: No dangerous reactions known.
Conditions to avoid: No further relevant information available.
Incompatible materials: No further relevant information available.
Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

Information on toxicological effects: Acute toxicity: Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Strong irritant with the danger of severe eye injury. Sensitization: No sensitizing effects known.

#### 12 Ecological information

Toxicity:

Aquatic toxicity: No further relevant information available.
Persistence and degradability: No further relevant information available.
Behaviour in environmental systems:
Bioaccumulative potential: No further relevant information available.
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.
Results of PBT and vPvB assessment:
PBT: Not applicable.

**vPvB:** Not applicable.

Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

#### 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.

(Contd. on page 7)

### ajINNUSCREEN

Page 7/8

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

Printing date 19.08.2014

14 Tra

Revision: 19.08.2014

#### Trade name: Content of InnuPure® C16 Strips/Plate A

	(Contd. of page 6)
Transport information	
UN-Number: ADR, IMDG, IATA UN proper shipping name: ADR	UN1987 1987 ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL
IMDG	ALCOHOL), ETHANOL (ETHYL ALCOHOL)) ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ETHANOL (ETHYL ALCOHOL)) ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL
Transport hazard class(es): ADR, IMDG, IATA	ALCOHOL), ETHANOL)
Class: Label:	3 Flammable liquids. 3
Packing group: ADR, IMDG, IATA Environmental hazards:	II
Marine pollutant: Special precautions for user: EMS Number: Transport in bulk according to Annex II of	No Warning: Flammable liquids. F-E,S-D
MARPOL73/78 and the IBC Code UN "Model Regulation":	Not applicable. UN1987, ALCOHOLS, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), ETHANOL (ETHYL ALCOHOL)), 3, II

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.

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

#### 16 Other information

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

#### **Relevant phrases:**

- H225 Highly flammable liquid and vapour.
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H336 May cause drowsiness or dizziness.
- Highly flammable. R11
- R22 Harmful if swallowed.
- R36 Irritating to eyes.
- R36/38 Irritating to eyes and skin.

(Contd. on page 8)

Page 8/8

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

Printing date 19.08.2014

Revision: 19.08.2014

ajINNUSCREEN

#### Trade name: Content of InnuPure® C16 Strips/Plate A

(Contd. of page 7)

R41 Risk of serious damage to eyes.R67 Vapours may cause drowsiness and dizziness.

#### **Department issuing MSDS:**

ADEEGO GmbH Wildsteig 4A 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 Harmonized 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) 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



Page 1/6

#### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 14.05.2014

Revision: 14.05.2014

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

#### **Product identifier**

Trade name: Lysis Solution CBV

Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. Application of the substance / the preparation: Buffer Uses advised against: No further information available.

#### 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 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

#### 2 Hazards identification

Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008: The product is not classified according to the CLP regulation.

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



R36: Irritating to eyes. Information concerning particular hazards for human and environment: The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version. **Classification system:** The classification is according to the latest editions of the EU-lists, and extended by company and literature data. Label elements: Labelling according to Regulation (EC) No 1272/2008: Void Hazard pictograms: Void Signal word: Void Hazard statements: Void Other hazards: Results of PBT and vPvB assessment: PBT: Not applicable. (Contd. on page 2)

# aINNUSCREEN

Page 2/6

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

Printing date 14.05.2014

#### Trade name: Lysis Solution CBV

**vPvB:** Not applicable.

#### 3 Composition/information on ingredients

**Chemical characterization: Mixtures** 

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

#### **Dangerous components:**

CAS: 151-21-3 sodium dodecyl sulphate EINECS: 205-788-1 🗙 Xn R22; 🔀 Xi R38-41 🚯 Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aguatic Chronic 3, H412

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

#### 4 First aid measures

#### 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.

#### Information for doctor:

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed: No further relevant information available.

#### 5 Firefighting measures

Extinguishing media:

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet Special hazards arising from the substance or mixture: No further relevant information available.

Advice for firefighters:

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

#### 6 Accidental release measures

Personal precautions, protective equipment and emergency procedures: Wear protective clothing. **Environmental precautions:** Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up:

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

Revision: 14.05.2014

(Contd. of page 1)

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Page 3/6

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

Printing date 14.05.2014

Revision: 14.05.2014

#### Trade name: Lysis Solution CBV

(Contd. of page 2)

#### 7 Handling and storage

Handling:

**Precautions for safe handling:** Store in cool, dry place in tightly closed receptacles. **Information about fire - and explosion protection:** No special measures required.

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.

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

#### 8 Exposure controls/personal protection

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

#### **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.

#### Exposure controls:

Personal protective equipment:

#### General protective and hygienic measures:

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

8.0

0°C

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

#### 9 Physical and chemical properties

# Information on basic physical and chemical properties:General Information:Appearance:Form:FluidColour:ClearOdour:CharacteristicOdour threshold:Not determined.

pH-value at 20 °C: Change in condition: Melting point/Melting range:

(Contd. on page 4)

ajINNUSCREEN

Page 4/6

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

Printing date 14.05.2014

Trade name: Lysis Solution CBV

Revision: 14.05.2014

Boiling point/Boiling range:	100 °C	(Contd. of page 3)
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: Lower: Upper:	Not determined. Not determined.	
Vapour pressure at 20 °C:	23 hPa	
Density: Relative density: Vapour density: Evaporation rate:	Not determined. Not determined. Not determined. Not determined.	
Solubility in / Miscibility with water:	Fully miscible.	
Partition coefficient (n-octanol/water)	: Not determined.	
Viscosity: Dynamic: Kinematic: Other information:	Not determined. Not determined. No further relevant information available.	

#### 10 Stability and reactivity

Reactivity: Chemical stability: Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions: No dangerous reactions known. Conditions to avoid: No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

Information on toxicological effects: Acute toxicity: Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eye: Irritating effect. Sensitization: No sensitizing effects known.

#### 12 Ecological information

**Toxicity:** 

Aquatic toxicity: No further relevant information available.

Page 5/6

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

Revision: 14.05.2014

(Contd. of page 4)

Printing date 14.05.2014

Trade name: Lysis Solution CBV

Persistence and degradability: No further relevant information available.
Behaviour in environmental systems:
Bioaccumulative potential: No further relevant information available.
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.
Results of PBT and vPvB assessment:
PBT: Not applicable.
vPvB: Not applicable.
Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

#### 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.

#### 14 Transport information

UN-Number: ADR, ADN, IMDG, IATA UN proper shipping name: ADR, ADN, IMDG, IATA	Void Void
Transport hazard class(es):	
ADR, ADN, IMDG, IATA Class:	Void
Packing group: ADR, IMDG, IATA Environmental hazards:	Void
Marine pollutant:	No
Special precautions for user:	Not applicable.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation":	Not applicable.

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available.

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

#### 16 Other information

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

#### **Relevant phrases:**

H302 Harmful if swallowed.

Revision: 14.05.2014

Page 6/6

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

Printing date 14.05.2014

Trade name: Lysis Solution CBV

	(Contd. of page 5)
Causes skin irritation. Causes serious eye irritation.	
larmful to aquatic life with long lasting effects.	
larmful if swallowed. rritating to skin. Risk of serious damage to eyes.	
ment issuing MSDS:	
GO GmbH eig 4A	
Wuppertal	
9 (0) 202 2575700	
l9 (0) 202 2575701	
mail@adeego.de	
ct: Dr. Axel Deeg /iations and acronyms:	
cord européen sur le transport des marchandises dangereuses par Route (European Agreement co onal Carriage of Dangerous Goods by Road) iternational Maritime Code for Dangerous Goods ernational Air Transport Association	oncerning the
obally Harmonized System of Classification and Labelling of Chemicals : European Inventory of Existing Commercial Chemical Substances	
European List of Notified Chemical Substances emical Abstracts Service (division of the American Chemical Society) ox. 4: Acute toxicity, Hazard Category 4	
2: Skin corrosion/irritation, Hazard Category 2	
2: Serious eye damage/eye irritation, Hazard Category 2 Chronic 3: Hazardous to the aquatic environment - Chronic Hazard, Category 3	



Page 1/7

Safety data sheet

according to 1907/2006/EC, Article 31

Revision: 09.05.2014

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

#### **Product identifier**

#### Trade name: Proteinase K

Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available. Application of the substance / the preparation: Enzyme Uses advised against: No further information available.

#### 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

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

#### 2 Hazards identification

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.



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.

#### Classification according to Directive 67/548/EEC or Directive 1999/45/EC:

#### Xi; Irritant

R36/37/38: Irritating to eyes, respiratory system and skin.

Xn; Sensitising

R42: May cause sensitisation by inhalation.

(Contd. on page 2)

Revision: 09.05.2014

Page 2/7

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

Printing date 09.05.2014

#### Trade name: Proteinase K

(Contd. of page 1)

The product has preparations of th Classification sy	cerning particular hazards for human and environment: to be labelled due to the calculation procedure of the "General Classification guideline for the EU" in the latest valid version. /stem: is according to the latest editions of the EU-lists, and extended by company and literature
	<b>ding to Regulation (EC) No 1272/2008:</b> assified and labelled according to the CLP regulation.
GHS07 GHS08	
Signal word: Da	nger
Proteinase, Tritira Hazard statemen H315 Causes ski H319 Causes sen H334 May cause H317 May cause H335 May cause Precautionary s	n irritation. ious eye irritation. allergy or asthma symptoms or breathing difficulties if inhaled. an allergic skin reaction. respiratory irritation. tatements:
P101	If medical advice is needed, have product container or label at hand.
P102 P103	Keep out of reach of children. Read label before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection. 8 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
DOCO	present and easy to do. Continue rinsing.
P362 P405	Take off contaminated clothing and wash before reuse. Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other hazards:	
	and vPvB assessment:
PBT: Not applica	ble.

**vPvB:** Not applicable.

#### 3 Composition/information on ingredients

#### **Chemical characterization: Mixtures**

Description: Mixture of substances listed below with nonhazardous additions.

#### Dangerous components:

 50-100%

(Contd. on page 3)



Page 3/7

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

Printing date 09.05.2014

Revision: 09.05.2014

#### Trade name: Proteinase K

(Contd. of page 2)

#### 4 First aid measures

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 eve contact:

Rinse opened eye for several minutes under running water.

Call a doctor immediately.

After swallowing: Call a doctor immediately.

#### Information for doctor:

Most important symptoms and effects, both acute and delayed:

No further relevant information available.

Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

#### **5** Firefighting measures

#### Extinguishing media:

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet

Special hazards arising from the substance or mixture: No further relevant information available. Advice for firefighters:

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

#### 6 Accidental release measures

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

#### 7 Handling and storage

Handling:

Precautions for safe handling: Store in cool, dry place in tightly closed receptacles. Information about fire - and explosion protection: No special measures required.

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.

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

(Contd. on page 4)



Page 4/7

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

Printing date 09.05.2014

Revision: 09.05.2014

#### Trade name: Proteinase K

(Contd. of page 3)

#### 8 Exposure controls/personal protection

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

#### **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.

#### **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

#### 9 Physical and chemical properties

Information on basic physical and chemical properties:

General	Information:

Appearance: Form: Colour: Odour: Odour threshold:	Solid White Nearly odourless Not determined.
pH-value:	6.5 (as aqueous solution)
Change in condition: Melting point/Melting range: Boiling point/Boiling range:	Undetermined. Undetermined.
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: Lower: Upper:	Not determined. Not determined.



Page 5/7

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

Printing date 09.05.2014

Revision: 09.05.2014

#### Trade name: Proteinase K (Contd. of page 4) Vapour pressure: Not applicable. Not determined. **Density: Relative density:** Not determined. Vapour density: Not determined. **Evaporation rate:** Not determined. Solubility in / Miscibility with Soluble. water: Partition coefficient (n-octanol/water): Not determined. Viscosity: **Dvnamic:** Not determined. Kinematic: Not determined. Other information: No further relevant information available.

#### 10 Stability and reactivity

**Reactivity:** 

**Chemical stability:** Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. Possibility of hazardous reactions: No dangerous reactions known. Conditions to avoid: No further relevant information available. Incompatible materials: No further relevant information available. Hazardous decomposition products: No dangerous decomposition products known.

#### 11 Toxicological information

Information on toxicological effects: Acute toxicity: Primary irritant effect: on the skin: Irritant to skin and mucous membranes. on the eve: Strong irritant with the danger of severe eve injury. Sensitization: Sensitization possible through skin contact. Sensitization possible through inhalation.

#### 12 Ecological information

**Toxicity:** 

Aquatic toxicity: No further relevant information available. Persistence and degradability: No further relevant information available. Behaviour in environmental systems: Bioaccumulative potential: No further relevant information available. 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. Results of PBT and vPvB assessment: **PBT:** Not applicable. vPvB: Not applicable.

(Contd. on page 6)

Page 6/7

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

Printing date 09.05.2014

#### Trade name: Proteinase K

Other adverse effects: No further relevant information available.

#### 13 Disposal considerations

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.

#### 14 Transport information

UN-Number: ADR, ADN, IMDG, IATA UN proper shipping name: ADR, ADN, IMDG, IATA Transport hazard class(es):	Void Void
ADR, ADN, IMDG, IATA Class: Packing group: ADR, IMDG, IATA Environmental hazards:	Void Void
Marine pollutant: Special precautions for user: Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code UN "Model Regulation":	No Not applicable. Not applicable.

#### 15 Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture: No further relevant information available. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

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

#### **Relevant phrases:**

H315 Causes skin irritation.

H319 Causes serious eye irritation.

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

R36/37/38 Irritating to eyes, respiratory system and skin.

R42 May cause sensitisation by inhalation.

#### Department issuing MSDS:

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(Contd. of page 5)

Page 7/7

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

Printing date 09.05.2014

#### Trade name: Proteinase K

Revision: 09.05.2014

(Contd. of page 6)

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 Harmonized 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) Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 1 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3