

Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

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

1.1 Product identifier

Trade name: Binding Optimizer UFI: W2PX-6WF5-A80C-1UQM

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

IST Innuscreen GmbH Robert-Rössle-Strasse 10 13125 Berlin / Germany Phone: +49 30 9489 3380 Fax: +49 30 9489 3381 E-Mail: sds.innu@ist-ag.com

Internet: www.ist-ag.com

Further information obtainable from: IST Innuscreen GmbH

1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale

Mathildenstraße 1

79106 Freiburg / Germany Phone: +49 761 19 240 Fax: +49 761 270 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 statements:**

H315 Causes skin irritation.

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.

(Contd. on page 2)



Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Trade name: Binding Optimizer

(Contd. of page 1)

P103 Read carefully and follow all instructions.

P280 Wear protective gloves / 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P337+P313 If eye irritation persists: Get medical advice/attention.

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 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 64-19-7 acetic acid >10-<25%

EINECS: 200-580-7 🍪 Flam. Liq. 3, H226; 🕎 Skin Corr. 1A, H314

Specific concentration limits: Skin Corr. 1A; H314: C ≥ 90 %

Skin Corr. 1B; H314: 25 % \leq C < 90 % Skin Irrit. 2; H315: 10 % \leq C < 25 % Eye Irrit. 2; H319: 10 % \leq C < 25 %

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:

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

5.2 Special hazards arising from the substance or mixture:

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

(Contd. on page 3)



Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Trade name: Binding Optimizer

(Contd. of page 2)

5.3 Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

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:

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).

Store away from foodstuffs.

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

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace:

64-19-7 acetic acid

OEL Short-term value: 50 mg/m³, 20 ppm Long-term value: 25 mg/m³, 10 ppm

IOELV

8.2 Exposure controls:

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as 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.

(Contd. on page 4)



Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Trade name: Binding Optimizer

(Contd. of page 3)

Respiratory protection:

Use suitable respiratory protective device in case of insufficient ventilation.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Filter E

Hand protection Protective gloves

Material of gloves: Butyl rubber, BR

Recommended thickness of the material: > 0.5 mm

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.

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/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Colour: Clear

Odour: Characteristic
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range 100 °C Flammability Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.

pH at 20 °C 5.2

Viscosity:

Kinematic viscosity Dynamic:Not determined.
Not determined.

Solubility

water: Soluble.

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

Vapour pressure at 20 °C:

Density and/or relative density

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.

9.2 Other information:

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Ignition temperature: 485 °C

Explosive properties: Product does not present an explosion hazard.

23 hPa

(Contd. on page 5)



Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Void

Trade name: Binding Optimizer

(Contd. of page 4)

Change in condition:

Evaporation rate: Not determined.

Information with regard to physical hazard

classes Void **Explosives** Flammable gases Void Void **Aerosols** Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void Pyrophoric liquids Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidisina liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void

SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- 10.2 Chemical stability:

Desensitised explosives

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions: Reacts with alkali (lyes).
- 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 hazard classes as defined in Regulation (EC) No 1272/2008

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 3,310 mg/kg (rat)

Dermal LD50 1,060 mg/kg (rabbit)

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.

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.

(Contd. on page 6)



Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Trade name: Binding Optimizer

(Contd. of page 5)

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

11.2 Information on other hazards **Endocrine disrupting properties**

None of the ingredients is listed.

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

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 or ID number

ADR, IMDG, IATA UN2790

14.2 UN proper shipping name:

2790 ACETIC ACID SOLUTION **ADR** IMDG. IATA ACETIC ACID SOLUTION

14.3 Transport hazard class(es):

ADR, IMDG, IATA



8 Corrosive substances. Class:

Label: 8

14.4 Packing group: Ш ADR, IMDG, IATA

14.5 Environmental hazards: Marine pollutant:

No

(Contd. on page 7)



Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Trade name: Binding Optimizer

(Contd. of page 6)

14.6 Special precautions for user:Warning: Corrosive substances.

Hazard identification number (Kemler code): 80
EMS Number: F-A,S-B
Segregation groups: Acids
Stowage Category A
14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ): 5L
Transport category: 3
Tunnel restriction code: E

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:

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed. REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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.

Training hints:

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

Department issuing SDS:

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(Contd. on page 8)





Printing date: 24.06.2021 Version number: 1.0 Revision: 24.06.2021

Trade name: Binding Optimizer

(Contd. of page 7)

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 – Category 3 Skin Corr. 1A: Skin corrosion/irritation – Category 1A Skin Irrit. 2: Skin corrosion/irritation - Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2



Printing date: 13.09.2021 Version number: 1.0 Revision: 13.09.2021

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

1.1 Product identifier

Trade name: Ery Lysis Solution A (conc.)

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

IST Innuscreen GmbH Robert-Rössle-Strasse 10 13125 Berlin / Germany Phone: +49 30 9489 3380 Fax: +49 30 9489 3381 E-Mail: sds.innu@ist-ag.com

Internet: www.ist-ag.com

Further information obtainable from: IST Innuscreen GmbH

1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale

Mathildenstraße 1

79106 Freiburg / Germany Phone: +49 761 19 240 Fax: +49 761 270 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 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void

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.

(Contd. on page 2)



Printing date: 13.09.2021 Version number: 1.0 Revision: 13.09.2021

Trade name: Ery Lysis Solution A (conc.)

(Contd. of page 1)

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:

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

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:

Mouth respiratory protective device.

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.

Store in cool, dry place in tightly closed receptacles.

Information about fire - and explosion protection: The product is not flammable.

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:

Keep container tightly sealed.

Store receptacle in a well ventilated area.

(Contd. on page 3)



Printing date: 13.09.2021 Version number: 1.0 Revision: 13.09.2021

Trade name: Ery Lysis Solution A (conc.)

(Contd. of page 2)

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

SECTION 8: Exposure controls/personal protection

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:

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as 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.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.

Hand protection Protective gloves

Material of gloves:

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.35 mm

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.

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/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Physical state Fluid
Colour: Colourless
Odour: Characteristic
Odour threshold: Not determined.
Melting point/freezing point: Undetermined.

Boiling point or initial boiling point and boiling

range 100 °C

Flammability Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined. PH Not determined.

Viscosity:

Kinematic viscosity

Not determined.

Not determined.

Solubility

water: Soluble.

(Contd. on page 4)



Printing date: 13.09.2021 Version number: 1.0 Revision: 13.09.2021

Trade name: Ery Lysis Solution A (conc.)

(Contd. of page 3)

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

Vapour pressure at 20 °C: 23 hPa

Density and/or relative density

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.

9.2 Other information:

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Ignition temperature: 425 °C

Explosive properties: Product does not present an explosion hazard.

Void

Void

Void

Void

Change in condition:

Evaporation rate: Not determined.

Information with regard to physical hazard

classes
Explosives
Flammable gases
Aerosols
Oxidising gases
Gases under pressure
Flammable liquids

Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void

Oxidising solidsVoidOrganic peroxidesVoidCorrosive to metalsVoidDesensitised explosivesVoid

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

Skin corrosion/irritation Based on available data, the classification criteria are not met.

(Contd. on page 5)



Printing date: 13.09.2021 Version number: 1.0 Revision: 13.09.2021

Trade name: Ery Lysis Solution A (conc.)

(Contd. of page 4)

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.

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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable.

vPvB: Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

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 or ID 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

Void Class:

14.4 Packing group:

ADR, IMDG, IATA Void

14.5 Environmental hazards:

Marine pollutant: No

(Contd. on page 6)





Printing date: 13.09.2021 Version number: 1.0 Revision: 13.09.2021

Trade name: Ery Lysis Solution A (conc.)

(Contd. of page 5)

14.6 Special precautions for user: Not applicable.

14.7 Maritime transport in bulk according to IMO

instruments Not applicable.

UN "Model Regulation": Void

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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.

Department issuing SDS:

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Contact: Dr. Axel Deeg

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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



Printing date: 28.06.2021 Version number: 1.0 Revision: 28.06.2021

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: IST Innuscreen GmbH

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Further information obtainable from: IST Innuscreen GmbH

1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale

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79106 Freiburg / Germany Phone: +49 761 19 240 Fax: +49 761 270 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 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 151-21-3 sodium dodecyl sulphate

>2.5-<10%

Čhronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 20 %

Eye Irrit. 2; H319: 10 % ≤ C < 20 %

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

(Contd. on page 2)



Printing date: 28.06.2021 Version number: 1.0 Revision: 28.06.2021

Trade name: Lysis Solution CBV

(Contd. of page 1)

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 eve 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:

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

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

5.3 Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

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: Keep container tightly sealed.

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

(Contd. on page 3)



Printing date: 28.06.2021 Version number: 1.0 Revision: 28.06.2021

Trade name: Lysis Solution CBV

(Contd. of page 2)

SECTION 8: Exposure controls/personal protection

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:

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as 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: Not necessary if room is well-ventilated.

Hand protection Protective gloves

Material of gloves: Nitrile rubber. NBR

Recommended thickness of the material: ≥ 0.35 mm

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.

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/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Colour:ColourlessOdour:CharacteristicOdour threshold:Not determined.

Melting point/freezing point: 0 °C

Boiling point or initial boiling point and boiling

range 100 °C **Flammability** Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.

pH at 20 °C 7

Viscosity:

Kinematic viscosity Dynamic:Not determined.
Not determined.

Solubility

water: Fully miscible.

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

Vapour pressure at 20 °C: 23 hPa

(Contd. on page 4)



Printing date: 28.06.2021 Version number: 1.0 Revision: 28.06.2021

Trade name: Lysis Solution CBV

(Contd. of page 3)

Density and/or relative density

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.

9.2 Other information:

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Explosive properties: Product does not present an explosion hazard.

Change in condition:

Evaporation rate: Not determined.

Information with regard to physical hazard

classes

Void **Explosives** Flammable gases Void **Aerosols** Void Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidisina liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

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.

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

(Contd. on page 5)



Printing date: 28.06.2021 Version number: 1.0 Revision: 28.06.2021

Trade name: Lysis Solution CBV

(Contd. of page 4)

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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

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 or ID 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 Maritime transport in bulk according to IMO

instruments Not applicable.

(Contd. on page 6)



Printing date: 28.06.2021 Version number: 1.0 Revision: 28.06.2021

Trade name: Lysis Solution CBV

(Contd. of page 5)

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.

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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.

Training hints:

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

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 relatif au transport international 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 - Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

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

1.1 Product identifier

Trade name: Proteinase K

CAS Number: 39450-01-6 EC number: 254-457-8

UFI: KGS0-VXDN-Q80F-2YRS

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:

IST Innuscreen GmbH Robert-Rössle-Strasse 10 13125 Berlin / Germany Phone: +49 30 9489 3380

Fax: +49 30 9489 3381 E-Mail: sds.innu@ist-aq.com Internet: www.ist-ag.com

Further information obtainable from: IST Innuscreen GmbH

1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale

Mathildenstraße 1 79106 Freiburg / Germany

Phone: +49 761 19 240 Fax: +49 761 270 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.



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 substance is classified and labelled according to the CLP regulation.

(Contd. on page 2)



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

Trade name: Proteinase K

(Contd. of page 1)

Hazard pictograms:





GHS07 GHS08

Signal word: Danger

Hazard-determining components of labelling:

proteinase

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 carefully and follow all instructions.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.
P284 [In case of inadequate ventilation] wear respiratory 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.

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

3.1 Substances

CAS No. Description

39450-01-6 proteinase

Identification number(s):

EC number: 254-457-8

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.

(Contd. on page 3)



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

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:

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

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

5.3 Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

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

8.1 Control parameters:

Ingredients with limit values that require monitoring at the workplace: Not required.

8.2 Exposure controls:

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as 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: Not necessary if room is well-ventilated.

(Contd. on page 4)



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

Trade name: Proteinase K

(Contd. of page 3)

Hand protection Protective gloves

Material of gloves: Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0.35 \text{ mm}$

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.

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/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Colour: White

Odour:
Odour threshold:
Not determined.
Melting point/freezing point:
Undetermined.

Boiling point or initial boiling point and boiling

range Undetermined. Flammability Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature:PH
Not determined.
Not applicable.

Viscosity:

Kinematic viscosity Dynamic:Not determined.
Not determined.

Solubility

water: Soluble.

Partition coefficient n-octanol/water (log value) Not determined. **Vapour pressure:** Not applicable.

Density and/or relative density

Density at 20 °C:1.1 g/cm³Relative density:Not determined.Vapour density:Not determined.Particle characteristicsSee item 3.

9.2 Other information:

Appearance:

Form: Solid

Important information on protection of health

and environment, and on safety.

Explosive properties: Product does not present an explosion hazard.

Change in condition:

Evaporation rate: Not determined.

Information with regard to physical hazard

classes

Explosives Void

(Contd. on page 5)



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

Trade name: Proteinase K

(Contd. of page 4) Flammable gases Void Void **Aerosols** Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void Pyrophoric liquids Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidising liquids Void **Oxidising solids** Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

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 hazard classes as defined in Regulation (EC) No 1272/2008

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

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.

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.

11.2 Information on other hazards

Endocrine disrupting properties

Substance is not listed.

(Contd. on page 6)



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

Trade name: Proteinase K

(Contd. of page 5)

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

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.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

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 or ID 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 Maritime transport in bulk according to IMO

instruments 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.

(Contd. on page 7)



Printing date: 02.07.2021 Version number: 1.0 Revision: 02.07.2021

Trade name: Proteinase K

(Contd. of page 6)

Directive 2012/18/EU

Named dangerous substances - ANNEX I Substance is not listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

Substance is not listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

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.

Training hints:

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

Department issuing SDS:

ADEEGO GmbH

Wildsteig 4A

D-42113 Wuppertal

Tel. +49 (0) 202 2575700 Fax. +49 (0) 202 2575701

Tax. 149 (0) 202 237370

Email: mail@adeego.de

www.adeego.de

Contact: Dr. Axel Deeg

Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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

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



Printing date: 06.07.2021 Version number: 1.0 Revision: 06.07.2021

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

1.1 Product identifier

Trade name: Washing Solution LS (conc.)

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

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier: IST Innuscreen GmbH Robert-Rössle-Strasse 10 13125 Berlin / Germany Phone: +49 30 9489 3380

Phone: +49 30 9489 3380 Fax: +49 30 9489 3381 E-Mail: sds.innu@ist-ag.com Internet: www.ist-ag.com

Further information obtainable from: IST Innuscreen GmbH

1.4 Emergency telephone number:

Poison Information Center / Vergiftungs-Informations-Zentrale

Mathildenstraße 1

79106 Freiburg / Germany Phone: +49 761 19 240 Fax: +49 761 270 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 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components: Void

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.

(Contd. on page 2)



Printing date: 06.07.2021 Version number: 1.0 Revision: 06.07.2021

Trade name: Washing Solution LS (conc.)

(Contd. of page 1)

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:

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

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

5.3 Advice for firefighters:

Protective equipment:

Mouth respiratory protective device.

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.

Use respiratory protective device against the effects of fumes/dust/aerosol.

Ensure adequate ventilation.

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.

Store in cool, dry place in tightly closed receptacles.

Prevent formation of aerosols.

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: Keep container tightly sealed.

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

(Contd. on page 3)



Printing date: 06.07.2021 Version number: 1.0 Revision: 06.07.2021

Trade name: Washing Solution LS (conc.)

(Contd. of page 2)

SECTION 8: Exposure controls/personal protection

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:

Appropriate engineering controls No further data; see item 7.

Individual protection measures, such as 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: Not necessary if room is well-ventilated.

Hand protection Protective gloves

Material of gloves:

Butyl rubber, BR

Recommended thickness of the material: $\geq 0.5 \text{ mm}$

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.

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/face protection Tightly sealed goggles

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties:

General Information:

Colour:ColourlessOdour:CharacteristicOdour threshold:Not determined.Melting point/freezing point:Undetermined.

Boiling point or initial boiling point and boiling

rangeFlammability
Undetermined.
Not applicable.

Lower and upper explosion limit

Lower:Not determined.Upper:Not determined.Flash point:Not applicable.

Auto-ignition temperature: Product is not selfigniting.

Decomposition temperature: Not determined.

pH at 20 °C 7.5

Viscosity:

Kinematic viscosity Dynamic:Not determined.
Not determined.

Solubility

water: Soluble.

Partition coefficient n-octanol/water (log value) Not determined. Vapour pressure: Not determined.

(Contd. on page 4)



Printing date: 06.07.2021 Version number: 1.0 Revision: 06.07.2021

Trade name: Washing Solution LS (conc.)

(Contd. of page 3)

Density and/or relative density

Density:Not determined.Relative density:Not determined.Vapour density:Not determined.

9.2 Other information:

Appearance:

Form: Fluid

Important information on protection of health

and environment, and on safety.

Explosive properties: Product does not present an explosion hazard.

Change in condition:

Evaporation rate: Not determined.

Information with regard to physical hazard

classes

Void **Explosives** Flammable gases Void **Aerosols** Void Oxidising gases Void Gases under pressure Void Flammable liquids Void Flammable solids Void Self-reactive substances and mixtures Void **Pyrophoric liquids** Void **Pyrophoric solids** Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in contact with water Void Oxidisina liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void **Desensitised explosives** Void

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:** Reacts with strong acids and alkali.
- **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 hazard classes as defined in Regulation (EC) No 1272/2008

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

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.

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

(Contd. on page 5)



Printing date: 06.07.2021 Version number: 1.0 Revision: 06.07.2021

Trade name: Washing Solution LS (conc.)

(Contd. of page 4)

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.

11.2 Information on other hazards

Endocrine disrupting properties

None of the ingredients is listed.

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.

12.5 Results of PBT and vPvB assessment:

PBT: Not applicable. **vPvB:** Not applicable.

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects:

Additional ecological information:
General notes: Not hazardous for water.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

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 or ID 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 Maritime transport in bulk according to IMO

instruments Not applicable.

UN "Model Regulation": Void

(Contd. on page 6)



Printing date: 06.07.2021 Version number: 1.0 Revision: 06.07.2021

Trade name: Washing Solution LS (conc.)

(Contd. of page 5)

SECTION 15: Regulatory information

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

Directive 2012/18/EU

Named dangerous substances - ANNEX I None of the ingredients is listed.

DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

REGULATION (EU) 2019/1148

Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

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.

Training hints:

Employees who use the product have to be trained on risks for health, hygiene, use of individual protection, accident preventive actions, rescue actions, etc.,

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Abbreviations and acronyms:

ADR: Accord relatif au transport international 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