

Material Safety Data Sheet

SureFood[®] PREP Advanced
Art. No. S1053

Version 1.0 - 2014/12



CONGEN 

Safety Data Sheet in Accordance with regulation 453/2010

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Date of issue: 30.09.2014 Replaces Data Sheet of: 06.06.2011
"*" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**
Trade Name: Lysis Buffer
Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.ap.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
Use: Analytics, Diagnostics
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**
CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de
- 1.3.2 **Responsible for the data sheet:**
CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**
Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning
Telephone: +49-30-94 89-3500 (8:00 – 16:00) Telephone: +44 870 600 6266

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
Classification and labelling according to Directive 1272/2008/EC:
Eye Irrit. 2, H319; Aquatic chronic 2, H411;
Classification and labelling according to Directive 1999/45/EC:
Irritant, R36; Dangerous for the environment, R51/53;
- 2.2 **Label elements**
Classification according to 1272/2008/EC: Yes.
Applicable Exemptions: Yes.
Signal word(s): Warning
Component(s):
- H - Phrases:**
H319: Causes serious eye irritation.
H411: Toxic to aquatic life with long lasting effects.
- P - Phrases:**
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes.
Remove contact lenses, if present and easy to do. Continue rinsing.
P273: Avoid release to the environment.
- Additional Markings: None.
- The above mentioned labelling is valid for distribution to industrial user.
- 2.3 **Other hazards**
May be harmful if swallowed. Product may soil public waters by raising overall contamination. This mixture contains no substances which are assessed to be PBT or vPvB.

Hazard pictogram(s):

**SECTION 3: Composition/information on ingredients**

- 3.1 **Substances**
Dangerous Ingredients:
- 3.2 **Mixtures**
Chemical Characterisation:
Aqueous solution
Dangerous Ingredients:
- | CAS - No. | Index - No. | EC - No. | Material | m% - range | Symbol | R / H - phrases |
|------------|--------------|-----------|-------------------|------------|------------------------|--|
| 12125-02-9 | 017-014-00-8 | 235-186-4 | Ammoniumchlorid | 15 - 20% | Xn ; GHS07 Wng | R 22-36 ; H302 H319 |
| 57-09-0 | n.av. | 200-311-3 | Cetrimoniumbromid | 2,5 - 5% | Xn, N ;
GHS07 GHS09 | R 22-36/37/38-50/53 ;
H302 H315 H319 H335
H410 |
- Text of R-/H- phrases: see section 16

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Trade Name: Lysis Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 06.06.2011

SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of vapours or decomposition products.
 If symptoms persist, call a physician.

4.1.2 Skin Contact:

Wash off immediately with plenty of water. Consult a physician.

4.1.3 Eye Contact:

Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.

4.1.4 Ingestion:

Rinse mouth out and drink plenty of water afterwards. In the event of symptoms occurring, seek medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

n.av.

4.3 Indication of any immediate medical attention and special treatment needed

None.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

Foam, dry chemicals, CO₂. water spray jet

5.1.2 Extinguishing Media to Avoid:

None.

5.2 Special hazards arising from the substance or mixture

In the case of fire, the following product(s) may form: Organic crackproducts and carbon oxides.
 Hydrogenchloride (HCl)

5.3 Advice for firefighters**5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

This material is not combustible; use extinguishing media appropriate for surrounding fire.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

See chapter 8.2.2

High risk of slipping due to leakage / spillage of product.

6.2 Environmental precautions

Do not allow larger quantities to enter drainage. Inform responsible authorities in the case of accidental release of larger quantities. Take up residues with suitable absorbent materials.

6.3 Methods and material for containment and cleaning up

Packaging that cannot be cleaned should be disposed of as for product

6.4 Reference to other sections

None.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling:**

Avoid contact with eyes and skin. Take off contaminated, saturated clothing immediately. Do not inhale dust, gas, vapours, fire -fumes. Do not eat, drink or smoke during work.

7.1.2 Precautions in Case of Fire and Explosion:

No special measures necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities**7.2.1 Storage Instructions:**

Do not keep at temperatures above 30°C.

7.2.2 Store away from:

Store away from oxidising agents.

7.2.3 Further Information on Storage Conditions:

None.

7.3 Specific end use(s)

n.av.

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Trade Name: Lysis Buffer

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SECTION 8: Exposure controls/personal protection**8.1 Control parameters**

Material	Limit Value
Cetrimoniumbromid	6 mg/m ³

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Keep container tightly closed. Close container straight after use or if empty.
 Application only when sufficient ventilated.

8.2.2 Individual protection measures**8.2.2a Respiratory Protection:** If ventilation is insufficient, wear respiratory protection**8.2.2b Hand Protection:** Gloves (solvent-resistant) (Butyl, Viton; break through time > 6 h)
Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.**8.2.2c Eye Protection:** tightly fitting goggles**8.2.2d Skin Protection:** Light protective clothing**8.2.2e Further Information:** Observe wearing time limits:**8.2.3 Environmental exposure controls:**

n.av.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties****9.1.1 Form:** liquid **Colour:** colourless **Odour:** almost odourless**Odour threshold:** n.av.**9.1.2 pH-value, undiluted:** n.av., pH-value, 1% aqueous solution: n.av.**9.1.3 Boiling point / Boiling - range (°C):** n.av., Melting point / Melting range (°C): n.av.**9.1.4 Flash point (°C):** n.av., closed cup**9.1.5 Flammability (EEC A10/A13):** n.av.**9.1.6 Ignition temperature (°C):** n.av.**9.1.7 Autoflammability (EEC A16):** n.av.**9.1.8 Oxidising properties:** None.**9.1.9 Explosion hazard:** No.**9.1.10 Explosion limits (Vol.%) lower:** None., upper: None.**9.1.11 Vapour pressure: / Vapour density (Air = 1):** n.av. / n.av.**9.1.12 Density (g/ml):** ~ 1**9.1.13 Solubility (in Water):** miscible Soluble in: Ethanol**9.1.14 Partition coefficient, n-Octanol / Water:** n.av.**9.1.15 Viscosity:** n.av.**9.1.16 Solvent content (m %):** n.ap.**9.1.17 Thermal decomposition (°C):** n.av.**9.1.18 Evaporation rate:** n.av.**9.2 Other information**

n.av.

SECTION 10: Stability and reactivity**10.1 Reactivity**

None.

10.2 Chemical stability

Stable at normal temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Protect from warming up / overheating.

10.5 Incompatible materials

Reactions with strong oxidising agents.

10.6 Hazardous decomposition products

No dangerous decomposition products when properly handled.

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Trade Name: Lysis Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
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SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Substances****11.1.2 Mixtures:**

n.av.

Acute Toxicity:

Inhalation:

ATEMIX = 5140

Ingestion:

n.av.

Skin Contact:

n.av.

Irritation / corrosion (to skin / eye):

Causes serious eye irritation.

Sensitisation:

n.av.

Carcinogenicity:

No.

Mutagenicity:

n.av.

Teratogenicity:

n.av.

Narcotic Effects:

None.

11.1.3 – Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

None.

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information**12.1 Toxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Cetrimonium bromide:

LC₅₀ (Danio rerio, 96h): 0,2 mg/lEC₅₀ (Daphnia magna, 48h): 0,026 mg/l**12.2 Persistence and degradability**

Not readily biodegradable.(Teil1)

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g:

n.av.

12.6.2 BOD5-Value, mg/g:

n.av.

12.6.3 AOX-Remarks:

n.av.

12.6.4 Significant Components:

Cetrimonium bromide

12.6.5 Other adverse effects:

None.

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

13.1.1 Recommendation: D 10 (91/156 EWG)

Waste - Code - No.: 07 07 99

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as for product

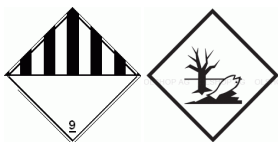
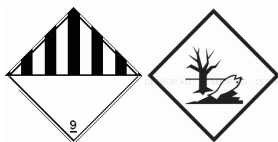
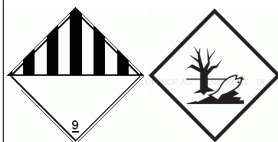
13.2.2 Safe Handling: Observe the usual precautionary measures for handling chemicals.

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SECTION 14: Transport information

	ADR	IMDG	IATA
14.1	UN number 3082	3082	3082
14.2	UN proper shipping name UN 3082 Environmentally hazardous substance, liquid, n.o.s. (Cetrimonium bromide)	Environmentally hazardous substance, liquid, n.o.s. (Cetrimonium bromide) & MARINE POLLUTANT	Environmentally hazardous substance, liquid, n.o.s. (Cetrimonium bromide)
14.3	Transport hazard class(es) 9 	9 	9 
14.4	Packing group III	III	III
14.5	Environmental hazards	Yes.	
14.6	Special precautions for user Transport category: 3 Classification Code: M6 Hazard - No.: 90 LQ: 5 L	F-A, S-F	Packing Instructions (Passenger) 964 Packing Instructions (Cargo) 964
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	None.	

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
n.av.
- 15.2 **Chemical safety assessment :**
None.

SECTION 16: Other information

Text of R / H phrases mentioned in Section 3

- R 22: Harmful if swallowed.
- R 36: Irritating to eyes.
- R 36/37/38: Irritating to eyes, respiratory system and skin.
- R 50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H335: May cause respiratory irritation.
- H410: Very toxic to aquatic life with long lasting effects.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by:

CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de, +49-6421-886563

Receipt of Data: 28.06.2002, inv_0011_c



Safety Data Sheet in Accordance with regulation 453/2010

Date of issue: 30.09.2014 Replaces Data Sheet of: 15.06.2011
 "" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**
Trade Name: Proteinase K
Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.av.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Use: Analytics, Diagnostics
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**
 CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de
- 1.3.2 **Responsible for the data sheet:**
 CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**

Emergency - Telephone of Company / Undertaking	Information Centre Specialising in Symptoms of Poisoning
Telephone: +49-30-94 89-3500 (8:00 – 16:00)	Telephone: +44 870 600 6266

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
Classification and labelling according to Directive 1272/2008/EC:
 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Resp. Sens. 1 , H334; STOT SE 3, H335;
Classification and labelling according to Directive 1999/45/EC:
 Irritant, R36/37/38; Harmful, R42;

- 2.2 **Label elements**
 Classification according to 1272/2008/EC: Yes.
 Applicable Exemptions:
 Signal word(s): Danger
 Component(s): 647-014-00-9 Proteinase K

Hazard pictogram(s):



H - Phrases:

H315: Causes skin irritation.
 H319: Causes serious eye irritation.
 H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
 H335: May cause respiratory irritation.

P - Phrases:

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
 P262: Do not get in eyes, on skin, or on clothing.
 P280: Wear protective gloves/protective clothing/eye protection/face protection.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310: Immediately call a POISON CENTER/doctor/...

Additional Markings:
 None.

The above mentioned labelling is valid for distribution to industrial user.

- 2.3 **Other hazards**
 May be harmful if swallowed. Product may soil public waters by raising overall contamination.
 This mixture contains no substances which are assessed to be PBT or vPvB.

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Trade Name: Proteinase K

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 15.06.2011

SECTION 3: Composition/information on ingredients**3.1 Substances****Dangerous Ingredients:**

CAS - No.	Index - No.	EC - No.	Material	m% - range	Symbol	R / H - phrases
39450-01-6	647-014-00-9	254-457-8	Proteinase K	> 99%	Xn ; GHS07 GHS08	R 36/37/38-42 ; H315 H319 H334 H335

3.2 Mixtures**Chemical Characterisation:**

Enzympuffer

Dangerous Ingredients:

Text of R-/H- phrases: see section 16

SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of vapours. Call a physician immediately.

4.1.2 Skin Contact:

Rinse immediately with plenty of water and seek medical advice.

4.1.3 Eye Contact:

Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.

4.1.4 Ingestion:

Rinse mouth out and drink plenty of water afterwards. Call physician.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions

4.3 Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

water, Foam, dry chemicals, CO2.

5.1.2 Extinguishing Media to Avoid:

None.

5.2 Special hazards arising from the substance or mixture

In the case of fire, the following product(s) may form: Organic crackproducts, carbon oxides and inorganic dust

5.3 Advice for firefighters**5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

None.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

See chapter 8.2.2

6.2 Environmental precautions

Do not allow to enter drainage / surface-water / ground-water. Keep clear of dust.

Cleaning measures must be done under respiratory protection. Dispose of absorbed material in accordance with the regulations. Flush away residues with water.

6.3 Methods and material for containment and cleaning up

Packaging that cannot be cleaned should be disposed of as for product

6.4 Reference to other sections

None.

Safety Data Sheet in Accordance with regulation 453/2010

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Trade Name: Proteinase K

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 15.06.2011

SECTION 7: Handling and storage**7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling:**

Do not inhale dust. Avoid contact with skin. Avoid contact with eyes.

Remove contaminated, saturated clothing immediately. Do not eat, drink or smoke during work.

7.1.2 Precautions in Case of Fire and Explosion:

Dust can form an explosive mixture with air.

7.2 Conditions for safe storage, including any incompatibilities**7.2.1 Storage Instructions:**

No special measures necessary if used correctly.

7.2.2 Store away from:

Store away from oxidising agents.

7.2.3 Further Information on Storage Conditions:

Do not expose to temperatures above 20°C.

7.3 Specific end use(s)**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Material**

Proteinase K

Limit Value

TLV dust: 10 mg/m³ (respirable fraction); 3 mg/m³ (alveole passing fraction)

8.2 Exposure controls**8.2.1 Appropriate engineering controls**

Keep container tightly closed. Close container straight after use or if empty.

8.2.2 Individual protection measures

8.2.2a Respiratory Protection: If ventilation is insufficient, wear respiratory protection
 (Short term: filter apparatus, Filter A)

8.2.2b Hand Protection: In case of prolonged skin contact use protective gloves.
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

8.2.2c Eye Protection: Goggles

8.2.2d Skin Protection: No.

8.2.2e Further Information: Observe wearing time limits:

8.2.3 Environmental exposure controls:**SECTION 9: Physical and chemical properties****9.1 Information on basic physical and chemical properties**

9.1.1 Form: Powder

Colour: white

Odour: almost odourless

Odour threshold: n.av.

9.1.2 pH-value, undiluted: n.av., pH-value, 1% aqueous solution: n.av.

9.1.3 Boiling point / Boiling - range (°C): n.av., Melting point / Melting range (°C): n.av.

9.1.4 Flash point (°C): n.ap., closed cup

9.1.5 Flammability (EEC A10/A13): n.ap.

9.1.6 Ignition temperature (°C): n.ap.

9.1.7 Autoflammability (EEC A16): n.ap.

9.1.8 Oxidising properties: None.

9.1.9 Explosion hazard: No.

9.1.10 Explosion limits (Vol.%) lower: None., upper: None.

9.1.11 Vapour pressure: / Vapour density (Air = 1): n.av. / n.ap.

9.1.12 Density (g/ml): n.av.

9.1.13 Solubility (in Water): Soluble Soluble in: Methanol

9.1.14 Partition coefficient, n-Octanol / Water: n.av.

9.1.15 Viscosity: n.ap.

9.1.16 Solvent content (m %): n.ap.

9.1.17 Thermal decomposition (°C): > 20

9.1.18 Evaporation rate: n.av.

9.2 Other information

n.av.

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Trade Name: Proteinase K

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 15.06.2011

SECTION 10: Stability and reactivity

- 10.1 **Reactivity**
None.
- 10.2 **Chemical stability**
Stable at normal temperature.
- 10.3 **Possibility of hazardous reactions**
No hazardous reactions known.
- 10.4 **Conditions to avoid**
Keep away from fire, sparks and heated surfaces.
- 10.5 **Incompatible materials**
Reactions with strong oxidising agents.
- 10.6 **Hazardous decomposition products**
No dangerous decomposition products when properly handled.

SECTION 11: Toxicological information

- 11.1 **Information on toxicological effects**
- 11.1.1 **Substances**
- 11.1.2 **Mixtures:**
n.ap.
- Acute Toxicity:
- | | |
|---------------|-------|
| Inhalation: | n.av. |
| Ingestion: | n.av. |
| Skin Contact: | n.av. |
- Irritation / corrosion (to skin / eye): Causes skin irritation. Causes serious eye irritation.
- Sensitisation: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- Carcinogenicity: n.av.
- Mutagenicity: n.av.
- Teratogenicity: n.av.
- Narcotic Effects: None.
- 11.1.3 – **Practical Experience**
- 11.1.12 n.av.
- 11.1.13 **Practical Experience**
Observations relevant for classification:
None.
Further Observations:
None.
Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information

- 12.1 **Toxicity**
According to present knowledge no negative ecological reactions are to be expected.
- 12.2 **Persistence and degradability**
The product is biodegradable.
- 12.3 **Bioaccumulative potential**
- 12.4 **Mobility in soil**
- 12.5 **Results of PBT and vPvB assessment**
This mixture contains no substances which are assessed to be PBT or vPvB.
- 12.6 **Other adverse effects**
- | | |
|--------------------------------|-------|
| 12.6.1 COD-Value, mg/g: | n.av. |
| 12.6.2 BOD5-Value, mg/g: | n.av. |
| 12.6.3 AOX-Remarks: | n.ap. |
| 12.6.4 Significant Components: | None. |
| 12.6.5 Other adverse effects: | None. |

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Trade Name: Proteinase K

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 15.06.2011

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

13.1.1 Recommendation: R 2 / D 10

Waste - Code - No.: 07 07 01

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as for product.

13.2.2 Safe Handling: Observe the usual precautionary measures for handling chemicals

SECTION 14: Transport information

	ADR	IMDG	IATA
	No dangerous goods according to ADR	No dangerous goods according to IMDG	No dangerous goods according to IATA-DGR
14.1	UN number		
14.2	UN proper shipping name		
14.3	Transport hazard class(es)		
14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user		
	Transport category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
		None.	

SECTION 15: Regulatory information15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
n.av.15.2 **Chemical safety assessment :**
None.**SECTION 16: Other information****Text of R / H phrases mentioned in Section 3**

R 36/37/38: Irritating to eyes, respiratory system and skin.

R 42: May cause sensitization by inhalation.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

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

H335: May cause respiratory irritation.

This datasheet has been compiled in accordance with EU regulation 453/2010.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

Prepared by:

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Receipt of Data: 28.06.2002, inv_0017_e



Safety Data Sheet in Accordance with regulation 453/2010

Date of issue: 30.09.2014 Replaces Data Sheet of: 28.07.2014
 "" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**
Trade Name: Binding Buffer
Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.ap.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Use: Analytics, Diagnostics
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**
 CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de
- 1.3.2 **Responsible for the data sheet:**
 CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning
 Telephone: +49-30-94 89-3500 (8:00 – 16:00) Telephone: +44 870 600 6266

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
Classification and labelling according to Directive 1272/2008/EC:
 Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336;
Classification and labelling according to Directive 1999/45/EC:
 Highly flammable, R11; Irritant, R36; R67;
- 2.2 **Label elements**
 Classification according to 1272/2008/EC: Yes.
 Applicable Exemptions: No.
 Signal word(s): Danger
 Component(s):
- H - Phrases:**
 H225: Highly flammable liquid and vapour.
 H319: Causes serious eye irritation.
 H336: May cause drowsiness or dizziness.
- P - Phrases:**
 P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233: Keep container tightly closed.
 P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- Additional Markings: None.
- The above mentioned labelling is valid for distribution to industrial user.
- 2.3 **Other hazards**
 Degreases skin. May cause skin and eye irritation. Materials should be tested for resistance.
 This mixture contains no substances which are assessed to be PBT or vPvB.

Hazard pictogram(s):



SECTION 3: Composition/information on ingredients

- 3.1 **Substances**
Dangerous Ingredients:
- 3.2 **Mixtures**
Chemical Characterisation:
 Alcoholic buffer solution
Dangerous Ingredients:
- | CAS - No. | Index - No. | EC - No. | Material | m% - range | Symbol | R / H - phrases |
|-----------|--------------|-----------|--|------------|------------------------|--------------------------------|
| 67-63-0 | 603-117-00-0 | 200-661-7 | Propan-2-ol
REACH_01-2119457558-25-xxxx | 65 - 90% | F, Xi ;
GHS02 GHS07 | R 11-36-67 ;
H225 H319 H336 |

Text of R-/H- phrases: see section 16

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Trade Name: Binding Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 28.07.2014

SECTION 4: First aid measures

- 4.1 **Description of first aid measures**
- 4.1.1 **Inhalation:**
Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion. If symptoms persist, call a physician.
- 4.1.2 **Skin Contact:**
Wash off with soap and water. If symptoms persist, call a physician.
- 4.1.3 **Eye Contact:**
Call a physician immediately. Rinse immediately with plenty of water, also under the eyelids.
- 4.1.4 **Ingestion:**
Rinse mouth. Drink plenty of water. Consult a physician.
- 4.2 **Most important symptoms and effects, both acute and delayed**
n.av.
- 4.3 **Indication of any immediate medical attention and special treatment needed**
Treat symptomatically.

SECTION 5: Firefighting measures

- 5.1 **Extinguishing media**
- 5.1.1 **Suitable Extinguishing Media:**
water spray jet, Foam, dry chemicals, CO₂.
- 5.1.2 **Extinguishing Media to Avoid:**
None.
- 5.2 **Special hazards arising from the substance or mixture**
In the case of fire, the following product(s) may form: Organic crackproducts and carbon oxides.
- 5.3 **Advice for firefighters**
- 5.3.1 **Special Protective Equipment:**
Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.
- 5.3.2 **Additional Information:**
None.

SECTION 6: Accidental release measures

- 6.1 **Personal precautions, protective equipment and emergency procedures**
See chapter 8.2.2
Keep away from sources of ignition.
- 6.2 **Environmental precautions**
Do not allow larger quantities to enter drainage. Inform responsible authorities in the case of accidental release of larger quantities.
- 6.3 **Methods and material for containment and cleaning up**
Soak up with absorbent material. Flush away residues with water.
- 6.4 **Reference to other sections**
None.

SECTION 7: Handling and storage

- 7.1 **Precautions for safe handling**
- 7.1.1 **Precautions for Safe Handling:**
Avoid contact with eyes and skin. Do not eat, drink or smoke during work.
Take off contaminated, saturated clothing immediately. Do not inhale vapours.
- 7.1.2 **Precautions in Case of Fire and Explosion:**
Keep away from sources of ignition - No smoking. Vapours may form explosive mixture with air.
- 7.2 **Conditions for safe storage, including any incompatibilities**
- 7.2.1 **Storage Instructions:**
Floor must be resistant against solvents.
- 7.2.2 **Store away from:**
Store away from explosive substances and products. oxidising agents.
- 7.2.3 **Further Information on Storage Conditions:**
Provide sufficient ventilation. Protect from sun. Protect from warming up / overheating.
- 7.3 **Specific end use(s)**
None.

Safety Data Sheet in Accordance with regulation 453/2010

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Trade Name: Binding Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 28.07.2014

SECTION 8: Exposure controls/personal protection

8.1	Control parameters	
	Material	Limit Value
	Propan-2-ol	200 ppm 500 mg/m³
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	Keep container tightly closed. Close container straight after use or if empty.
8.2.2	Individual protection measures	
8.2.2a	Respiratory Protection:	If ventilation is insufficient, wear respiratory protection (Short term: filter apparatus, Filter A)
8.2.2b	Hand Protection:	In case of prolonged skin contact use protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
8.2.2c	Eye Protection:	Goggles
8.2.2d	Skin Protection:	No.
8.2.2e	Further Information:	Observe wearing time limits:
8.2.3	Environmental exposure controls:	n.av.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties		
9.1.1	Form: liquid	Colour: colourless	Odour: alcohol-like
			Odour threshold: n.av.
9.1.2	pH-value, undiluted:	n.av., pH-value, 1% aqueous solution: n.av.	
9.1.3	Boiling point / Boiling - range (°C):	~ 85, Melting point / Melting range (°C): n.av.	
9.1.4	Flash point (°C):	< 21, closed cup	
9.1.5	Flammability (EEC A10/A13):	No.	
9.1.6	Ignition temperature (°C):	n.av.	
9.1.7	Autoflammability (EEC A16):	None.	
9.1.8	Oxidising properties:	No.	
9.1.9	Explosion hazard:	No.	
9.1.10	Explosion limits (Vol.%) lower:	2, upper: 12	
9.1.11	Vapour pressure: / Vapour density (Air = 1):	41,6 mbar (20°C) / Vapours are heavier than air.	
9.1.12	Density (g/ml):	~ 0,9	
9.1.13	Solubility (in Water):	miscible	Soluble in: most organic solvents.
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.	
9.1.15	Viscosity:	n.av.	
9.1.16	Solvent content (m %):	60 - 90	
9.1.17	Thermal decomposition (°C):	n.av.	
9.1.18	Evaporation rate:	n.av.	
9.2	Other information	n.av.	

SECTION 10: Stability and reactivity

10.1	Reactivity	None.
10.2	Chemical stability	Stable under normal conditions.
10.3	Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
10.4	Conditions to avoid	Keep away from fire, sparks and heated surfaces. Take precautionary measures against static discharges.
10.5	Incompatible materials	Contact with oxidising agents may lead to strong reactions.
10.6	Hazardous decomposition products	No dangerous decomposition products when properly handled.

Safety Data Sheet in Accordance with regulation 453/2010

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Trade Name: Binding Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 28.07.2014

SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Substances:**

n.ap.

11.1.2 Mixtures

Acute Toxicity:

Inhalation:

n.av.

Ingestion:

n.av.

Skin Contact:

n.av.

Irritation / corrosion (to skin / eye):

Causes serious eye irritation.

Sensitisation:

n.av.

Carcinogenicity:

n.av.

Mutagenicity:

n.av.

Teratogenicity:

n.av.

Narcotic Effects:

Inhalation of solvent-vapours in high concentration causes narcotic effects.

11.1.3 – Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

None.

Further Observations:

None.

Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information**12.1 Toxicity**

According to present knowledge no negative ecological reactions are to be expected.

12.2 Persistence and degradability

The product is biodegradable.

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil

n.av.

12.5 Results of PBT and vPvB assessment

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g:

n.av.

12.6.2 BOD5-Value, mg/g:

n.av.

12.6.3 AOX-Remarks:

n.ap.

12.6.4 Significant Components:

Not relevant

12.6.5 Other adverse effects:

None.

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

13.1.1 Recommendation: D 10 / R 4

Waste - Code - No.: 07 06 04

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as for product




13.2.2 Safe Handling: Observe the usual precautionary measures for handling chemicals.

Safety Data Sheet in Accordance with regulation 453/2010

Trade Name: Binding Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 28.07.2014

SECTION 14: Transport information

	ADR	IMDG	IATA
14.1	Exemption to ADR 3.5.1.4 (< 1mL / < 1g) UN number 1219	1219	1219
14.2	UN proper shipping name UN 1219 Isopropanol-Solution	Isopropanol-Solution	Isopropanol-Solution
14.3	Transport hazard class(es) 3 	3 	3 
14.4	Packing group II	II	II
14.5	Environmental hazards	No.	
14.6	Special precautions for user Transport category: 3 Classification Code: F1 Hazard - No.: 33 LQ: 1 L	F-E; S-D	Packing Instructions (Passenger) 353 Packing Instructions (Cargo) 364
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	None.	

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
n.av.
- 15.2 **Chemical safety assessment :**
None.

SECTION 16: Other information

Text of R / H phrases mentioned in Section 3

- R 11: Highly flammable.
- R 36: Irritating to eyes.
- R 67: Vapours may cause drowsiness and dizziness.
- H225: Highly flammable liquid and vapour.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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Receipt of Data: 28.06.2002, inv_0006_d



Safety Data Sheet in Accordance with regulation 453/2010


Page 1 of 5

Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011
 "" alterations as compared to previous version; n.ap. = not applicable; n.av. = not available

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

- 1.1 **Product identifier**
Trade Name: Pre-wash Buffer
Article No.: n.av.
Preparation No.: n.av.
Registration No.: n.ap.
- 1.2 **Relevant identified uses of the substance or mixture and uses advised against**
 Use: Analytics, Diagnostics
- 1.3 **Details of the supplier of the safety data sheet**
- 1.3.1 **Address of the Company / Supplier:**
 CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Telefax: +49-30-94 89-3510, E-Mail: info@congen.de
- 1.3.2 **Responsible for the data sheet:**
 CoSiChem AG, Ernst-Lemmer-Straße 27, D - 35041 Marburg, info@cosichem.de
- 1.4 **Emergency telephone number**
 Emergency - Telephone of Company / Undertaking Information Centre Specialising in Symptoms of Poisoning
 Telephone: +49-30-94 89-3500 (8:00 – 16:00) Telephone: +44 870 600 6266

SECTION 2: Hazards identification

- 2.1 **Classification of the substance or mixture**
Classification and labelling according to Directive 1272/2008/EC:
 Acute Tox. 4, H302/H312/H332; Aquatic chronic 3, H412
Classification and labelling according to Directive 1999/45/EC:
 Harmful, R20/21/22, dangerous for the environment, R 52/53; R32
- 2.2 **Label elements**
 Classification according to 1272/2008/EC: Yes.
 Applicable Exemptions:
 Signal word(s): Warning
 Component(s): Guanidinthiocyanate
 Hazard pictogram(s): 
- H - Phrases:**
 H302: Harmful if swallowed.
 H312: Harmful in contact with skin.
 H332: Harmful if inhaled.
 H412: Harmful to aquatic life with long lasting effects.
- P - Phrases:**
 P273: Avoid release to the environment.
 P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Additional Markings:
 EUH032: Contact with acids liberates very toxic gas.
- The above mentioned labelling is valid for distribution to industrial user.
- 2.3 **Other hazards**
 Materials should be tested for resistance.
 This mixture contains no substances which are assessed to be PBT or vPvB.

SECTION 3: Composition/information on ingredients

- 3.1 **Substances**
Dangerous Ingredients:
- 3.2 **Mixtures**
Chemical Characterisation:
 Aqueous solution
Dangerous Ingredients:
- | CAS - No. | Index - No. | EC - No. | Material | m% - range | Symbol | R / H - phrases |
|-----------|--------------|-----------|--------------------|------------|--------------|--|
| 593-84-0 | 615-004-00-3 | 209-812-1 | Guanidinthiocyanat | 25 - 50% | Xn;
GHS07 | R 20/21/22-32-52/53;
H302 H3012 H332 H412
EUH032 |

Text of R-/H- phrases: see section 16

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Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

SECTION 4: First aid measures**4.1 Description of first aid measures****4.1.1 Inhalation:**

Move to fresh air in case of accidental inhalation of vapours. Call a physician immediately.

4.1.2 Skin Contact:

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Consult a physician.

4.1.3 Eye Contact:

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

4.1.4 Ingestion:

Do not cause vomiting. Rinse mouth out and drink plenty of water afterwards. Summon a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Continue to monitor for pneumonia and pulmonary oedema. Symptomatic treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media****5.1.1 Suitable Extinguishing Media:**

water spray jet, Foam, dry chemicals, CO₂.

5.1.2 Extinguishing Media to Avoid:

None.

5.2 Special hazards arising from the substance or mixture

In the case of fire, the following product(s) may form: Organic crackproducts and carbon oxides., nitrogenoxides (NO_x), Thiocyanates.

5.3 Advice for firefighters**5.3.1 Special Protective Equipment:**

Wear positive pressure self-contained breathing apparatus. Wear full protective clothing.

5.3.2 Additional Information:

This material is not combustible; use extinguishing media appropriate for surrounding fire.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

See chapter 8.2.2

Provide sufficient ventilation.

6.2 Environmental precautions

Do not allow to enter drainage / surface-water / ground-water. Inform responsible authorities in the case of accidental release. Take up with suitable absorbent material.

6.3 Methods and material for containment and cleaning up

Packaging that cannot be cleaned should be disposed of as for product

6.4 Reference to other sections

None.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****7.1.1 Precautions for Safe Handling:**

Avoid contact with eyes and skin. Take off contaminated, saturated clothing immediately.

Do not inhale dust, gas, vapours, fire -fumes. Do not eat, drink or smoke during work.

7.1.2 Precautions in Case of Fire and Explosion:

No special measures necessary if used correctly.

7.2 Conditions for safe storage, including any incompatibilities**7.2.1 Storage Instructions:**

Provide solvent resistant and tight floor. Provide sufficient ventilation.

7.2.2 Store away from:

Incompatible with acids and oxidizing agents.

7.2.3 Further Information on Storage Conditions:

Protect against light.

7.3 Specific end use(s)

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Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

SECTION 8: Exposure controls/personal protection

8.1	Control parameters	
	Material	Limit Value
8.2	Exposure controls	
8.2.1	Appropriate engineering controls	
	Keep container tightly closed. Close container straight after use or if empty. Application only when sufficient ventilated.	
8.2.2	Individual protection measures	
8.2.2a	Respiratory Protection:	If ventilation is insufficient, wear respiratory protection(Filter for Isothiocyanates)
8.2.2b	Hand Protection:	Gloves (solvent-resistant) Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
8.2.2c	Eye Protection:	tightly fitting goggles
8.2.2d	Skin Protection:	Light protective clothing
8.2.2e	Further Information:	Observe wearing time limits:
8.2.3	Environmental exposure controls:	n.av.

SECTION 9: Physical and chemical properties

9.1	Information on basic physical and chemical properties	
9.1.1	Form: liquid	Colour: colourless Odour: characteristic
		Odour threshold: n.av.
9.1.2	pH-value, undiluted:	n.ap., pH-value, 1% aqueous solution: n.av.
9.1.3	Boiling point / Boiling - range (°C):	~ 100, Melting point / Melting range (°C): n.av.
9.1.4	Flash point (°C):	n.ap., closed cup
9.1.5	Flammability (EEC A10/A13):	n.ap.
9.1.6	Ignition temperature (°C):	n.ap.
9.1.7	Autoflammability (EEC A16):	n.ap.
9.1.8	Oxidising properties:	None.
9.1.9	Explosion hazard:	n.av.
9.1.10	Explosion limits (Vol.%) lower:	None., upper: None.
9.1.11	Vapour pressure: / Vapour density (Air = 1):	n.av. / n.ap.
9.1.12	Density (g/ml):	~ 1,1
9.1.13	Solubility (in Water):	miscible Soluble in: most organic solvents.
9.1.14	Partition coefficient, n-Octanol / Water:	n.av.
9.1.15	Viscosity:	n.av.
9.1.16	Solvent content (m %):	n.ap.
9.1.17	Thermal decomposition (°C):	n.av.
9.1.18	Evaporation rate:	n.av.
9.2	Other information	
	n.av.	

SECTION 10: Stability and reactivity

10.1	Reactivity
	None.
10.2	Chemical stability
	No decomposition if stored and applied as directed.
10.3	Possibility of hazardous reactions
	Contact with acids liberates toxic gases.
10.4	Conditions to avoid
	No special measures necessary if used correctly.
10.5	Incompatible materials
	Reactions with strong oxidising agents. acids. lyes.
10.6	Hazardous decomposition products
	Thiocyanate

Safety Data Sheet in Accordance with regulation 453/2010

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Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

SECTION 11: Toxicological information**11.1 Information on toxicological effects****11.1.1 Substances:**

n.ap.

11.1.2 Mixtures

Acute Toxicity:

Inhalation:

n.av.

Ingestion:

ATEMIX = 1256

Skin Contact:

n.av.

Irritation / corrosion (to skin / eye):

Causes skin irritation. Moderate eye irritation.

Sensitisation:

Allergic reactions and sensitization are possible.

Carcinogenicity:

n.av.

Mutagenicity:

n.av.

Teratogenicity:

n.av.

Narcotic Effects:

None.

11.1.3 – Practical Experience

11.1.12 n.av.

11.1.13 Practical Experience

Observations relevant for classification:

n.av.

Further Observations:

Frequent or permanent contact to skin may lead to irritation or dermatitis.

Classification of the preparation has been done by calculation in accordance with EEC directives.

SECTION 12: Ecological information**12.1 Toxicity**

n.av.

12.2 Persistence and degradability

The product is highly volatile and can be largely eliminated from the water by stripping.

12.3 Bioaccumulative potential

n.av.

12.4 Mobility in soil**12.5 Results of PBT and vPvB assessment**

This mixture contains no substances which are assessed to be PBT or vPvB.

12.6 Other adverse effects

12.6.1 COD-Value, mg/g:

n.av.

12.6.2 BOD5-Value, mg/g:

n.av.

12.6.3 AOX-Remarks:

n.av.

12.6.4 Significant Components:

None.

12.6.5 Other adverse effects:

None.

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

13.1.1 Recommendation: R 2 / D 10

Waste - Code - No.: 07 06 99

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.

In addition comply with the regional authorities.

13.2 Contaminated Packaging

13.2.1 Recommendation: Wash with suitable cleaner. Packaging that cannot be cleaned should be disposed of as for product

13.2.2 Safe Handling: Observe the usual precautionary measures for handling chemicals.

Safety Data Sheet in Accordance with regulation 453/2010

Trade Name: Pre-wash Buffer

Company / Supplier: CONGEN Biotechnologie GmbH, Robert-Rössle-Str. 10, D - 13125 Berlin
 Telephone: +49-30-94 89-3500, Date of issue: 30.09.2014 Replaces Data Sheet of: 17.05.2011

SECTION 14: Transport information

	ADR	IMDG	IATA
	No dangerous goods according to ADR	No dangerous goods according to IMDG	No dangerous goods according to IATA-DGR
14.1	UN number		
14.2	UN proper shipping name		
14.3	Transport hazard class(es)		
14.4	Packing group		
14.5	Environmental hazards		
14.6	Special precautions for user		
	Transport category: Classification Code: Hazard - No.: LQ:		Packing Instructions (Passenger) Packing Instructions (Cargo)
14.7	Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code		
		None.	

SECTION 15: Regulatory information

- 15.1 **Safety, health and environmental regulations/legislation specific for the substance or mixture**
n.av.
- 15.2 **Chemical safety assessment :**
None.

SECTION 16: Other information

Text of R / H phrases mentioned in Section 3

R 20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
 R 32: Contact with acids liberates very toxic gas.
 R 52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

This datasheet has been compiled in accordance with EU regulation 453/201.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.

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