

33039 Ronigswinter

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

#### 1.1 Product identifier

Buffer solution pH-4, 250ml Article number: 1000176

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

1.2.1 Relevant uses

**Buffer Solution** 

1.2.2 Uses advised against

None known.

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

Company C. Gerhardt GmbH & Co. KG

Cäsariusstraße 97

53639 Königswinter / GERMANY Phone +49 (0)2223 2999 - 0 Fax +49 (0)2223 2999 - 99 Homepage www.gerhardt.de E-mail info@gerhardt.de

Address enquiries to

Technical informationinfo@gerhardt.deSafety Data Sheetsdb@chemiebuero.de

1.4 Emergency telephone number

Advisory body Call NHS 111 or a doctor

**Company** +49 (0) 2223 2999-0 Mo-Fr 8:00 - 16:00

## **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture [REGULATION (GB) CLP]

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with regulation CLP.

Hazard pictogramsnoneSignal wordnoneHazard statementsnonePrecautionary statementsnone

2.3 Other hazards

**Environmental hazards**Does not contain any PBT or vPvB substances.

Other hazards Further hazards were not determined with the current level of knowledge.

### SECTION 3: Composition / Information on ingredients

# 3.1 Substances

not applicable

### 3.2 Mixtures

The product is a mixture.

Comment on component parts No dangerous components.

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.



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## **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General information Change soaked clothing.

**Inhalation** Ensure supply of fresh air.

In the event of symptoms seek medical treatment.

Skin contact In case of contact with skin wash off with warm water.

Consult a doctor if skin irritation persists.

Eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

**Ingestion** Rinse out mouth and give plenty of water to drink.

Seek medical advice.

#### 4.2 Most important symptoms and effects, both acute and delayed

No information available.

### 4.3 Indication of any immediate medical attention and special treatment needed

Forward this sheet to your doctor.

## **SECTION 5: Fire-fighting measures**

## 5.1 Extinguishing media

Suitable extinguishing media Product itself is non-combustible. Fire extinguishing method of surrounding areas must be

considered.

Extinguishing media that must not

be used

Full water jet

## 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

### 5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures

Not required under normal conditions.

## 6.2 Environmental precautions

Do not discharge into the soil/streches of water.

# 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. acid binder).

Dispose of absorbed material in accordance within the regulations.

### 6.4 Reference to other sections

See SECTION 8+13



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## SECTION 7: Handling and storage

## 7.1 Precautions for safe handling

The normal safety precautions for handling chemicals must be observed.

Wash face and/or hands before break and end of work.

Use barrier skin cream.

Do not eat, drink or smoke when using this product.

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

Keep only in original tightly closed container.

Prevent penetration into the ground.

Do not store together with food and animal food/diet.

Keep container tightly closed.

Recommended storage temperature: 15-25 °C.

## 7.3 Specific end use(s)

See product use, SECTION 1.2

# SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

not applicable

## 8.2 Exposure controls

Additional advice on system design 
Ensure adequate ventilation on workstation.

Eye protection If there is a risk of splashing:

safety glasses (EN 166:2001)

Hand protection 0.4 mm; Nitrile rubber, >480 min (EN 374-1/-2/-3).

The details concerned are recommendations. Please contact the glove supplier for further

information

**Skin protection** light protective clothing

Other Avoid contact with eyes and skin.

**Respiratory protection** Not required under normal conditions.

Thermal hazards none

Delimitation and monitoring of the

environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit

emissions.



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## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state liquid Color colourless Odor odourless **Odour threshold** not determined pH-value 4 (20 °C) pH-value [1%] not determined Boiling point [°C] not determined Flash point [°C] not applicable Flammability (solid, gas) [°C] not applicable Lower explosion limit not applicable Upper explosion limit not applicable

Oxidising properties no

Vapour pressure/gas pressure [kPa] not determined

**Density [g/cm³]** 1.0071 (20 °C / 68,0 °F)

Relative density not determined

Bulk density [kg/m³] not applicable

Solubility in water completely miscible

Solubility other solvents No information available.

Partition coefficient [n-octanol/water] not determined
Kinematic viscosity not determined
Relative vapour density not determined
Evaporation speed not determined
Melting point [°C] not determined
Auto-ignition temperature not self-igniting
Decomposition temperature [°C] not determined
Particle characteristics not applicable

## 9.2 Other information

none

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

See SECTION 10.3.

# 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No hazardous reactions known.

#### 10.4 Conditions to avoid

Strong heating.

## 10.5 Incompatible materials

No information available.



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#### 10.6 Hazardous decomposition products

No hazardous decomposition products known.

## **SECTION 11: Toxicological information**

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity

Product

oral, Based on the available information, the classification criteria are not fulfilled.

#### Acute dermal toxicity

Product

dermal, Based on the available information, the classification criteria are not fulfilled.

#### Acute inhalational toxicity

Produc<sup>\*</sup>

inhalative, Based on the available information, the classification criteria are not fulfilled.

Serious eye damage/irritation

Based on the available information, the classification criteria are not fulfilled.

Skin corrosion/irritation

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity—

Based on the available information, the classification criteria are not fulfilled.

Specific target organ toxicity — single exposure

Specific target organ toxicity —

repeated exposure

Mutagenicity

Based on the available information, the classification criteria are not fulfilled.

Reproduction toxicity

Based on the available information, the classification criteria are not fulfilled.

Carcinogenicity

Based on the available information, the classification criteria are not fulfilled.

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

### 11.2 Information on other hazards

**Endocrine disrupting properties** 

Contains no ingredients with endocrine-disrupting properties.

Based on the available information, the classification criteria are not fulfilled.

Other information none

# SECTION 12: Ecological information

## 12.1 Toxicity

### 12.2 Persistence and degradability

Behaviour in environment

compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

No information available.

### 12.3 Bioaccumulative potential

No information available.

#### 12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.



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#### 12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

## 12.6 Endocrine disrupting properties

Contains no ingredients with endocrine-disrupting properties.

#### 12.7 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product** 

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended)

060314

Contaminated packaging

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

150102 Waste no. (recommended)

## **SECTION 14: Transport information**

## 14.1 UN number or ID number

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

# 14.2 UN proper shipping name

Transport by land according to ADR/RID

NO DANGEROUS GOODS

Inland navigation (ADN)

NO DANGEROUS GOODS

Marine transport in accordance with NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

Safety Data Sheet (UK REACH) (GB) Buffer solution pH-4, 250ml Article number 1000176 C. Gerhardt GmbH & Co. KG



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#### 14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

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not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

14.4 Packing group

Transport by land according to

ADR/RID

not applicable

Inland navigation (ADN)

not applicable

Marine transport in accordance with

**IMDG** 

not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to

ADR/RID

no

Inland navigation (ADN) no

Marine transport in accordance with no

IMDG

Air transport in accordance with IATA no

# 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Maritime transport in bulk according to IMO instruments

not applicable

# SECTION 15: Regulatory information

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

**EEC-REGULATIONS** 2008/98/EC 2000/532/EC); 2010/75/EU; 2004/42/EC; (EC) 648/2004; (EC) 1907/2006

(REACH); (EU) 1272/2008; 75/324/EEC ((EC) 2016/2037); (EU) 2020/878; (EU) 2016/131;

(EU) 517/2014

TRANSPORT-REGULATIONS ADR (2021); IMDG-Code (2021, 40. Amdt.); IATA-DGR (2022)

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011); UK

REACH; GB CLP.

no

- Observe employment restrictions

for people

- VOC (2010/75/CE) 0 %

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### 15.2 Chemical safety assessment

#### **SECTION 16: Other information**

#### 16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level

DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

EL50 = Median effective loading

ELINCS = European List of Notified Chemical Substances

EmS = Emergency Schedules

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform ChemicaL Information Database

IVIS = In vitro irritation score

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

LL50 = Median lethal loading

LQ = Limited Quantities

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level

NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value – time-weighted average

TLV®STEL = Threshold limit value – short-time exposure limit VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

### 16.2 Other information

Classification procedure

Modified position none



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