



## SAFETY DATA SHEET

### 1. Identification of the substance / preparation and company.

#### 1.1 Product identifier

Product Nr. CL03.0213

Trade name Buffer pH 4.00

REACH Registration Number A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses: Reagent for analysis

In compliance with the conditions described in the annex to this safety data sheet.

#### 1.3 Information provided by AnalytiChem Belgium NV product service.

Responsible department: AnalytiChem Belgium NV

Industriezone "De Arend" 2

B-8210 Zedelgem

BELGIUM

Tel. +32 50 28 83 20 e-mail: info.be@analytichem.com

#### 1.4 Emergency telephone: 00 (32) 50.28.83.20

### 2. Hazard identification

#### 2.1 Classification of the substance or the mixture (EG 1272/2008)

For the full text of H-sentences mentioned in this Section, see Section 16

For the full text of R-sentences mentioned in this Section, see Section 16

#### 2.2 GHS-Labeling

This substance is not classified as dangerous according to European Union legislation.

### 3. Composition / Information on ingredients.

#### 3.1 Substance

Not applicable

#### 3.2 Mixture

Hazardous Ingredients:

Name according to EC directives:

| Component                      | Cas-No.   | Concentration | Classification (REGULATION (EC) No 1272/2008) |
|--------------------------------|-----------|---------------|---|
| Citric acid.1aq a.r.           | 5949-29-1 | ≥1%-<2,5%     | Eye Irrit. 2 (H319)                           |
| Sodium chloride a.r.           | 7647-14-5 | ≥0,1%-<1%     |   |
| Sodium hydroxide, pellets a.r. | 1310-73-2 | ≥0,1%-<1%     | Skin Corr. 1A (H314)<br>Met. Corr. 1 (H290)   |

| Component                      | Reach Number     |
|--------------------------------|------------------|
| Sodium chloride a.r.           | 01-2119485491-33 |
| Sodium hydroxide, pellets a.r. | 01-2119457892-27 |

For the full text of H-Phrases mentioned in this Section, see Section 16.

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#### **4. First aid measures.**

##### **4.1 Description of first aid measures**

###### **General advice**

First-aid personnel: ensure self-protection!

After inhalation: None

After contact with skin: None

After contact with eyes: None

After ingestion: None

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

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

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

No data available

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#### **5. Fire fighting measures.**

##### **5.1 Extinguishing media**

###### **Suitable extinguishing media**

In adaption to materials stored in the immediate neighbourhood.

###### **Unsuitable extinguishing media**

Not of application.

##### **5.2 Special hazards arising from substance or mixture**

Not of application.

##### **5.3 Advice for firefighters**

Not of application.

##### **5.4 Further information**

No data available

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#### **6. Accidental release measures.**

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

When used appropriate no negative effects are known.

For personal protection see section 8.

##### **6.2 Environmental precautions**

No special dangers are known by use.

##### **6.3 Methods and materials for containment and cleaning up**

Dilute with large quantities of water.

##### **6.4 Reference to other sections**

## **7. Handling and storage.**

### **7.1 Precautions for safe handling**

No special measures necessary. The product should be handled with the care usual when dealing with chemicals.

For precautions see section 2.2

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

None

Recommended storage temperature see product label.

### **7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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## **8. Exposure controls - Personal protection.**

### **8.1 Control parameters**

### **8.2 Exposure controls**

#### **Engineering measures**

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

See section 7.1

#### **Individual protection measures**

Not required.

#### **Respiratory protections**

Required when vapours/aerosols are generated.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

#### **Eye protection**

Required.

#### **Hand protection**

Not required.

#### **Body protection**

Not required.

#### **Environmental exposure controls**

No special dangers are known by use.

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## **9. Physical and chemical properties.**

### **9.1 Information on basic physical**

#### Appearance

|         |            |
|---------|------------|
| Form:   | Liquid     |
| Colour: | Colourless |
| Odour:  | Odourless  |

#### Changes in physical state

|                |       |
|----------------|-------|
| Melting Point: | 0°C   |
| Boiling point: | 100°C |

Flash point: -  
Self Ignation temperature: -  
Mol. Weight:  
Density: 1,01 g/ml  
pH value: pH = 4.00  
Solubility in water: soluble  
Explosion limits:

## 9.2 Other data

No further relevant information available.

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## **10. Stability and reactivity.**

### **10.1 Reactivity**

See section 10.3

### **10.2 Chemical stability**

No further relevant information available.

### **10.3 Possibility of hazardous reactions**

Dangerous reactions are not expected handling the product according to its intended use.

### **10.4 Conditions to avoid**

No further relevant information available.

### **10.5 Incompatible materials**

No further relevant information available.

### **10.6 Hazardous decomposition products**

No further relevant information available.

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## **11. Toxicological information.**

### **11.1 Information on toxicological effects**

Acute oral toxicity  
Quantitative data on the toxicity of this product are not available.

Acute inhalation toxicity  
No further relevant information available.

Acute dermal toxicity  
No further relevant information available.

Skin irritation  
No further relevant information available.

Eye irritation  
No further relevant information available.

Sensitisation  
No further relevant information available.

Germ cell mutagenicity  
No further relevant information available.

Carcinogenicity  
No further relevant information available.

Reproductive toxicity  
No further relevant information available.

Teratogenicity  
No further relevant information available.

Specific target organ toxicity - single exposure  
No further relevant information available.

Specific target organ toxicity - repeated exposure  
No further relevant information available.

Aspiration hazard  
No further relevant information available.

#### 11.2 Further information

No further relevant information available.

Further data:

Handle in accordance with good industrial hygiene and safety practice..

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### 12. Ecological information.

#### 12.1 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

No further relevant information available.

#### 12.6 Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention

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### 13. Disposal considerations.

Product: Chemicals must be disposed of in compliance with the respective national regulations. Packaging: Chem-lab product packaging must be disposed of in compliance with the country-specific regulations or must be passed to a packaging return system.

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### 14. Transport information.

#### Land Transport (ADR/RID)

14.1 UN number UN

14.2 Proper shipping name -

14.3 Class

14.4 Packing group

14.5 Environmentally hazardous -

14.6 Special precautions for user no

Tunnel restriction code

#### Inland waterway transport (ADN)

Not relevant

#### Air Transport (IATA)

14.1 UN number UN

14.2 Proper shipping name -

14.3 Class  
14.4 Packing group  
14.5 Environmentally hazardous -  
14.6 Special precautions for user no

**Sea Transport (IMDG)**

14.1 UN number UN  
14.2 Proper shipping name -  
14.3 Class  
14.4 Packing group  
14.5 Environmentally hazardous -  
14.6 Special precautions for user no

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not relevant

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**15. Regulatory information.**

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

For this product an assessment was not carried out.

**15.2 Chemical Safety Assessment**

For this product an assessment was not carried out.

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**16. Other information.**

The information and recommendations in this MSDS are to the best of our knowledge, information and belief accurate at the date of publications. Although utmost care has been taken in the composition of this text, the publisher cannot be held responsible for any damage resulting from any possible error in this publications.

Full text of H-Statements referred to under sections 2 and 3.

H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.