

## SAFETY DATA SHEET

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

#### 1.1 Product identifier

Product Nr. CL03.0122

Trade name Ammonium chloride-Ammonia buffer pH 10 - ISE buffer

REACH A registration number is not available for this substance as the substance or its use are  
Registration exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006, the  
Number 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 CHEM-LAB NV product service.

Responsible department: CHEM-LAB NV

Industriezone "De Arend" 2

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BELGIUM

Tel. +32 50 28 83 20

Fax. +32 50 78 26 54

e-mail: info@chem-lab.be

#### 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)

Skin corrosion/irritation, Categorie 1B, H314

Specific target organ toxicity - single exposure, Categorie 3, H335

Hazardous to the aquatic environment, Categorie 1, H400

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-Labelling

GHS-Labelling Labelling (REGULATION (EC) No 1272/2008) (EG 1272/2008)

Hazard pictograms:



Signal word:

Danger :

Hazard statements:

H314

Causes severe skin burns and eye damage.

H335

May cause respiratory irritation.

H400 Very toxic to aquatic life.

Precautionary statements:

P280	Wear protective gloves, protective clothing, eye protection, face protection.
P273	Avoid release to the environment.
P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.

Reduced labelling  
Hazard pictograms:



Signal word:  
Danger :

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### **3. Composition / Information on ingredients.**

#### **3.1 Substance**

Not applicable

#### **3.2 Mixture**

Formula  $\text{NH}_4\text{Cl}/\text{NH}_4\text{OH}/\text{H}_2\text{O}$

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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: Fresh air.

After contact with skin: Wash off with plenty of water. Dab with polyethylene glycol 400. Remove contaminated clothing. Immediately call in physician.

After contact with eyes: Rinse out with plenty of water for at least 10 minutes with the eyelid held wide open. Immediately call an ophtalmologist.

After ingestion: Never give anything by mouth to an unconscious person. Make victim drink water (two glasses at most), avoid vomiting (risk of perforation!). Immediately call in physician. Do not attempt to neutralize.

#### **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

### 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**

All media suitable

#### **Unsuitable extinguishing media**

Contain escaping vapours with water. Prevent fire-fighting water from entering surface water or groundwater.

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

Non-combustible. Ambient fire may liberate hazardous vapours.

### **5.3 Advice for firefighters**

Do not stay in dangerous zone without self-contained breathing apparatus. In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

### **5.4 Further information**

no data available

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

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

Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed rooms.  
For personal protection see section 8.

### **6.2 Environmental precautions**

Do not allow to enter sewerage system.

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

Take up dry. Forward for disposal. Clean up affected area.

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

For disposal see section 13.

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

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

Use skin, hand and eye protection  
For precautions see section 2.2

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

Closed in a well ventilated place.  
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**

Immediately change contaminated clothing. Apply skin- protective barrier cream. Wash hands and face after working with substance. Under no circumstances eat or drink at workplace. Work under hood . Do not inhale substance.

#### **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**

Required.

#### **Body protection**

Required.

#### **Environmental exposure controls**

Do not allow to enter sewerage system.

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

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

##### Appearance

Form: Liquid  
Colour: Colourless  
Odour: ammonia

##### Changes in physical state

Melting Point: 0°C  
Boiling point: 100°C  
Flash point: -  
Ignation temperature: -  
Mol. Weight:  
Density: 0,99 g/ml  
pH value: pH = 10  
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**

Explosible with air in a vaporous/gaseous state when heated

#### **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

LD50 orl. rat 350 mg/kg

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

Do not allow to enter waters, waste water, or soil!

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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 2672

Ammonia solution relative density (specific gravity) less than 0.880 and 0.957 at 15°C in water, with more than 10% but not more than 35% ammonia

#### 14.2 Proper shipping name

#### 14.3 Class

8

#### 14.4 Packing group

III

#### 14.5 Environmentally hazardous

yes

#### 14.6 Special precautions for user

no

Tunnel restriction code

(E)

### Inland waterway transport (ADN)

Not relevant

### Air Transport (IATA)

#### 14.1 UN number

UN 2672

Ammonia solution relative density (specific gravity) less than 0.880 and 0.957 at 15°C in water, with more than 10% but not more than 35% ammonia

#### 14.2 Proper shipping name

#### 14.3 Class

8

#### 14.4 Packing group

III

#### 14.5 Environmentally hazardous

yes

#### 14.6 Special precautions for user

no

### Sea Transport (IMDG)

#### 14.1 UN number

UN 2672

Ammonia solution relative density (specific gravity) less than 0.880 and 0.957 at 15°C in water, with more than 10% but not more than 35% ammonia

#### 14.2 Proper shipping name

#### 14.3 Class

8

#### 14.4 Packing group

III

#### 14.5 Environmentally hazardous

yes

#### 14.6 Special precautions for user

no

**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.

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.