



SAFETY DATA SHEET

1. Identification of the substance / preparation and company.

1.1 Product identifier

Product Nr. CL01.0111
Trade name Ammonia standard solution 1000 µg/ml NH₄⁺ for IC (Ion HIQU)
REACH Registration Number 01-2119489385-24
CAS-No. 12125-02-9

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)
Ammonia 25 weight % solution a.r.	1336-21-6	≥0,1% - <1%	Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400) Met. Corr. 1 (H290)
Water (Ultra Pure)	7732-18-5	≥90%	

Component	Reach Number
Ammonia 25 weight % solution a.r.	01-2119982985-14

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

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: Rinse out with plenty of water with the eyelid held wide open.

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

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

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

For disposal see section 13.

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

Tightly closed.

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.

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. Wash hands after working with 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

Not required.

Body protection

Not required.

Environmental exposure controls

No special dangers are known by use.

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:	53.49 g/mol
Density:	1,00 g/ml
pH value:	pH $\pm$ 5
Solubility in water:	soluble
Explosion limits:	

9.2 Other data

No further relevant information available.

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.

11. Toxicological information.

11.1 Information on toxicological effects

Acute oral toxicity

LD50 orl. rat 1440 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..

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

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.

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

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.

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.

H335 May cause respiratory irritation.

H400 Very toxic to aquatic life.