

CHEM-LAB NV Industriezone "De Arend" 2 B-8210 ZEDELGEM - BELGIUM

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SAFETY DATA SHEET

1. Identification of the substance / preparation and company.

1.1 Product identifier

Product Nr. CL00.2705

Trade name Ammonia 30-33 weight % solution a.r.

REACH Registration Number 01-2119982985-14

CAS-No. 1336-21-6

1.2 Relevant identified uses of the substance or mixture and uses adviced 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: 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 Subtance or mixture corrosive to metals, Categorie 1, H290

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.H290 May be corrosive to metals.

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

3. Composition / Information on ingredients.

3.1 Substance

CAS-No. 1336-21-6 EC-Nr 215-647-6 Index-No 007-001-01-2 Formula NH4OH/H2O

Component	Cas-No.	Concentration	Classification (REGULATION (EC) No 1272/2008)
Ammonia 30-33 weight % solution a.r.	1336-21-6	300 - 330 g NH3 / kg	Skin Corr. 1B (H314) STOT SE 3 (H335) Aquatic Acute 1 (H400) Met. Corr. 1 (H290)

Component	Reach Number
Ammonia 30-33 weight % solution a.r.	01-2119982985-14

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

3.2 Mixture

Not applicable

4. First aid measures.

4.1 Description of first aid measures

General advice

First-aid personnel: ensure self-protection!

After inhalation: Remove to fresh air, seek medical advice.

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 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

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

6. Accidental release measures.

6.1 Peronal 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

Sweep up and place in a closed container for disposal.

6.4 Reference to other sections

For disposal see section 13.

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.

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 entrepeneur 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.

9. Physical and chemical properties.

9.1 Information on basic physical

<u>Appearence</u>

Form: liquid
Colour: colourless
Odour: ammonia

Changes in physical state

Melting Point: -77°C
Boiling point: 30°C
Flash point: -

Ignation temperature: -

Mol. Weight: 17.03 g/mol Density: 0,88 g/ml pH value: pH > 11 Solubility in water: soluble

Explosion limits: lower 15.4 vol% / upper 33.6 vol%

Further information: explosion limits - I

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

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.

11. Toxicological information.

11.1 Information on toxicological effects

Acute oral toxity LD50 orl. rat 350 mg/kg

Acute inhalation toxity

No further relevant information available.

Acute dermal toxity

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 toxity

No further relevant information available.

Teratogenicity

No further relevant information available.

Specific target organ toxity - single exposure

No further relevant information available.

Specific target organ toxity - 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 Toxity

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!

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 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

14.2 Proper shipping name 35% ammonia

14.3 Class814.4 Packing groupIII14.5 Environmentally hazardousyes14.6 Special precautions for usernoTunnel 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

14.2 Proper shipping name 35% ammonia

14.3 Class814.4 Packing groupIII14.5 Environmentally hazardousyes14.6 Special precautions for userno

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

14.2 Proper shipping name 35% ammonia

14.3 Class814.4 Packing groupIII14.5 Environmentally hazardousyes14.6 Special precautions for userno

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 speficic for the substance or mixtureFor this product an assessment was not carried out.

15.2 Chemical Safety Assesment

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 outmost 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.

Exposure scenario 1 (Industrial use)

1. Industrial use Reagent for analysis, (Chemical production)

Sectors of end-use

SU 3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU 9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)

Chemical product category

PC19 Removed from PC list and relocated in the technical function list (Table R.12- 15)24.

PC21 Laboratory chemicals

Process categories

Revision date: 31/03/2020

PROC 1 Chemical production or refinery in closed process without likelihood of exposure or processes with equivalent containment conditions.

PROC 2	Chemical production or refinery in closed continuous process with occasional controlled exposure or processes with equivalent containment conditions
PROC 3	Manufacture or formulation in the chemical industry in closed batch processes with occasional controlled exposure or processes with equivalent containment condition
PROC 4	Chemical production where opportunity for exposure arises
PROC 5	Mixing or blending in batch processes
PROC 8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities 26
PROC 8b	Transfer of substance or mixture (charging and discharging) at dedicated facilities26
PROC 9	Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC10	Roller application or brushing
PROC15	Use as laboratory reagent
Environmer	ntal Release Categories
ERC 1	Manufacture of the substance
ERC 2	Formulation into mixture
ERC 4	Use of non-reactive processing aid at industrial site (no inclusion into or onto article)
ERC 6a	Use of intermediate
ERC 6b	Use of reactive processing aid at industrial site (no inclusion into or onto article)

2. Contributing scenarios: Operational conditions and risk management measures

Exposure scenario 2 (Professional use)

1. Industrial use Reagent for analysis, (Chemical production)

Sectors of end-use

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Chemical product category

PC21 Laboratory chemicals

Process categories

PROC15 Use as laboratory reagent

Environmental Release Categories

ERC 2 Formulation into mixture ERC 6a Use of intermediate

ERC 6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

2. Contributing scenarios: Operational conditions and risk management measures