

Safety Data sheet

According to Directive 1907/2006

0277 AMMONIA AQUEOUS, 20% (as NH₃) w/w

Creation Date: 01/12/2010 Revision date: 30/11/2017

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

Identification of the product

Catalogue No: 0277 Product name: AMMONIA AQUEOUS, 20% (as NH₃) w/w Use of the substance: Analysis and chemical-pharmaceutical production REACH registration Nr.: 01-2119488876-14-0168

Company/undertaking identification

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2. Hazards identification

Labelling in accordance with directive 1907/2006



R-phrases

34 Causes burns.

50 Very toxic to aquatic organisms.

S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately. (Show the label where possible)

61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Labelling in accordance with directive 1272/2008





H-phrases

314 Causes severe skin burns and eye damage.
335 May cause respiratory irritation.
400 Very toxic to aquatic life.

P-phrases

309+311 IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
305+351 If in eyes: Rinse cautiously with water for several minutes.
338 Remove contact lenses, if present and easy to do. Continue rinsing.
273 Avoid release to the environment.

Signal word : DANGER

CORROSIVE; DANGEROUS FOR ENVIRONMENT

R-phrases:

Causes burns.
Very toxic to aquatic organisms.

3. Composition/information on ingredients

Aqueous solution

For the full text of the R phrases mentioned in this section, see Section 16.

CAS-No.: 1336-21-6

Molecular Weight: 35,05

Chemical formula: NH_4OH

EC-Index-No.: 007-001-02-X

EC-No.: 215-647-6

R-phrases 34; 50

For more information about the R-Phrases text you can consult the paragraph 16

4. First aid measures

After inhalation:

Fresh air

If sickness persists, call the physician

After skin contact:

Rinse with abundant water (or have a shower)

Get rid of the contaminated clothes

If sickness persists, call the physician

After eye contact:

Rinse with abundant water, keeping eyelids open (at least 10 min)

Call the ophthalmologist

After swallowing:

Drink lots of water

Avoid vomiting (perforation risk)

Call the doctor

Do not carry out neutralization measures

5. Fire-fighting measures

Suitable extinguishing media:

Adapt the materials of the surroundings

Special risks:

Fireproof

Special protective equipment for fire fighting:

Remain in the risk area only if provided with independent artificial respiratory systems.

Other information:

Precipitate emergent steam with water

Avoid the penetration of the extinction water in superficial or subterranean aquifers.

6. Accidental release measures

Person-related precautionary measures:

Not to inhale steam/aerosols

Procedures for cleaning/absorption:

To gather with absorbents

To come to the elimination of the remainders

Rinse.

Environmental protection measures:

Do not send it to the sewerage system

7. Handling and storage

Handling: Without other exigencies

Storage:

Well closed

In well-ventilated place

Storage temperature: ambient

8. Exposure controls/personal protection

Exposure limit control

TLV-TWA: 18 mg/m³; TLV-STEL: 25 mg/m³ (ammonia)

Personal protective equipment:

Respiratory protection:

Respiratory protection

Hand protection:

Protection gloves:

Nitrile rubber

Eye protection:

Needed

Skin and body protection:

Suitable protective clothing

Other protective equipment:

Change immediately contaminated clothes

Wash hands and face when the work is finished

Fulfill the commitments under local environmental protection legislation

9. Physical and chemical properties

Physical state: Liquid

Colour: Colourless
Odour: Pungent
pH value: 11.6 (1.0 M)
Melting point: -72°C
Boiling point: 36°C
Vapour pressure: 500 hPa (20°C)
Density (g/cm³): 0,923
Solubility: Soluble in water

10. Stability and reactivity

Substances to be avoided:

Iodine
Alkaline metals.
Alkaline salts.
Strong acids.
Zinc.
Copper.
Aluminium.
Halogen-halogen compounds.
Sodium hypochlorite.

Hazardous decomposition products:

Ammonia.
Nitrogen oxides.

Further information:

Forms explosive mixtures with air on intense heating.
Light-sensitive.
Heat-sensitive.

11. Toxicological information

Acute toxicity:

DL50 (oral, rat): 350 mg/kg; Cl50 (inhalation, rat): 2000 ppm/4h

After eye contact:

Burns
Risk of blindness

After skin contact:

Irritations
Burns

After inhalation:

Coughing
Bronchitis
Pulmonary oedema

After swallowing:

Irritations of mucous membranes in the mouth
Abdominal pain
Nausea
Vomiting
Loss of consciousness
Collapse
Dyspnoea

Further toxicological information:

Take the usual precautions for handling chemical products
Other dangerous characteristics are not discarded

12. Ecological information

Fishes: Salmo gairdneri: CE10: 0.3 mg/l

Daphnia: Daphnia magna: LC50 60 mg/l

Other harmful effects:

Acute ecotoxicity in the dumping area

Highly toxic for aquatic organisms

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

13. Disposal considerations

Product:

Dispose as regulated in the community countries by local regulations.

Please contact with the suitable authority in each case (Public Administration or company specialized in

Packaging:

Product packaging disposal must be disposed of in compliance with the respective local regulations.

For contaminated packaging the same measures must be adopted as for the contaminated product.

Not contaminated packaging must be disposed of as domestic residues or recycled material.

European Directive 94/62/EC of 20 December 1994 on packaging and packaging waste

14. Transport information

Overland transport ADR/RID

UN: 2672

Class: 8

Packaging group: III

Correct technical name: AMMONIA SOLUTION

Sea transport IMDG

UN: 2672

Class: 8/III

Packaging group: III

Correct technical name: AMMONIA SOLUTION

Air transport ICAO-IATA-DGR

UN: 2672

Class: 8

Packaging group: III

Correct technical name: AMMONIA SOLUTION

CAO: 856

PAX: 852

15. Regulatory information

16. Other information

Full text of R phrases mentioned in sections 2 and 3

34 Causes burns.

50 Very toxic to aquatic organisms.

The information contained herein is based on the present state of our knowledge.
It characterizes the product with regard to appropriate safety precautions. It does not represent
a guaranty of the properties of the product.