

according to Regulation (EC) No 1907/2006

Ammonia solution 25%, 250 ml

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Ammonia solution 25%, 250 ml

CAS No: 1336-21-6 Index No: 007-001-01-2 EC No: 215-647-6

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

Use of the substance/mixture

Laboratory chemicals

1.3. Details of the supplier of the safety data sheet

Seller

Company name: CONATEX-DIDACTIC Lehrmittel GmbH

Street: Im Forstgarten 1
Place: D-66459 Kirkel
Internet: www.conatex.com

Supplier

Company name: Carbolution Chemicals GmbH Street: Im Stadtwald, Gebäude A1.2

Place: D-66123 Saarbrücken

Contact person: Dr. Michael Bauer Telephone: +49 (0)681 302-71232

e-mail: michael.bauer@carbolution-chemicals.de

Internet: www.carbolution-chemicals.de

1.4. Emergency telephone +49 (0)681 302-71232

number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Directive 67/548/EEC or 1999/45/EC

Indications of danger: C - Corrosive, N - Dangerous for the environment

R phrases: Causes burns.

Very toxic to aquatic organisms.

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Hazard categories:

Skin corrosion/irritation: Skin Corr. 1B

Hazardous to the aquatic environment: Aquatic Acute 1 (M-Factor = 1)

Hazard Statements:

Causes severe skin burns and eye damage.

Very toxic to aquatic life.

2.2. Label elements

Hazardous components which must be listed on the label

Ammonia ... %

Signal word: Danger

Pictograms: GHS05-GHS07-GHS09



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Hazard statements

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation. H400 Very toxic to aquatic life.

Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER/doctor.

SECTION 3: Composition/information on ingredients

3.1. Substances

Sum formula: H5NO Molecular weight: 35,05

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
215-647-6	Ammonia %	25 - < 30 %
1336-21-6	C - Corrosive, N - Dangerous for the environment R34-50	
007-001-01-2	Skin Corr. 1B, Aquatic Acute 1; H314 H400	

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

First aider: Pay attention to self-protection! Remove affected person from the danger area and lay down. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air. Medical treatment necessary.

After contact with skin

After contact with skin, wash immediately with polyethylene glycol, followed by plenty of water. Take off immediately all contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

Rinse mouth immediately and drink plenty of water. Do NOT induce vomiting. Potential hazards: Gastric perforation. Call a physician immediately. Do not allow a neutralisation agent to be drunk.

4.3. Indication of any immediate medical attention and special treatment needed



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No data available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Before discharge into sewage plants the product normally needs to be neutralised. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Advice on protection against fire and explosion

Only use the material in places where open light, fire and other flammable sources can be kept away.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-41-7	Ammonia, anhydrous	25	18		TWA (8 h)	WEL
		35	25		STEL (15 min)	WEL

8.2. Exposure controls



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Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

Protective and hygiene measures

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

Eye protection: Tightly sealed safety glasses. German Industry Norms (DIN) / European Norms (EN): DIN EN 166

Hand protection

Hand protection: Single-use gloves. Before using check leak tightness / impermeability. Use gloves only once. German Industry Norms (DIN) / European Norms (EN): DIN EN 374

Skin protection

Body protection: Lab apron. Only wear fitting, comfortable and clean protective clothing.

Respiratory protection

With correct and proper use, and under normal conditions, breathing protection is not required. If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. Suitable respiratory protective equipment: particulates filter device (DIN EN 143).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: colourless

Odour: No data available

Test method

No data available

pH-Value: 11,7

Changes in the physical state

Melting point:
-60 °C
Initial boiling point and boiling range:
38 °C
Sublimation point:
No data available
Softening point:
No data available
Flash point:
No data available

Flammability

Solid: No data available
Gas: No data available
Lower explosion limits: 16 vol. %
Upper explosion limits: 27 vol. %

Auto-ignition temperature

Ignition temperature:

Solid: No data available
Gas: No data available
Vapour pressure: 153 hPa

(at 20 °C)

Vapour pressure:

No data available

Density:

0,9 g/cm³



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Water solubility:	No data available				
Partition coefficient:	No data available				
Viscosity / dynamic:	No data available				
Viscosity / kinematic:	No data available				
Flow time:	No data available				
Vapour density:	1,21				
Evaporation rate:	No data available				
Solvent separation test:	No data available				
Solvent content:	No data available				
9.2. Other information					
Solid content:	No data available				

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

No data available

10.5. Incompatible materials

Oxidizing agents, strong.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicocinetics, metabolism and distribution

Toxicological data are not available.

Acute toxicity

Toxicological data are not available.

Irritation and corrosivity

Causes severe skin burns and eye damage. If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects).

Sensitising effects

No data available

Severe effects after repeated or prolonged exposure

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

Due to missing data no statement can be made whether the substance fullfills the criteria of CMR categories 1 or 2. Practical experiences do not give any evidence for CMR activity of categories 1 or 2.

Specific effects in experiment on an animal

No data available

Additional information on tests

This mixture is classified as hazardous according to 1999/45/EC.

Practical experience

Observations relevant to classification

No data available



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SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic organisms.

CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h] [d]	Species	Source
1336-21-6	Ammonia %					
	Acute fish toxicity	LC50	0,53 mg/l	96 h	Onchorhynchus mykiss	
	Acute crustacea toxicity	EC50	24 mg/l	48 h	Daphnia magna	

12.2. Persistence and degradability

No data available

12.3. Bioaccumulative potential

No data available

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
1336-21-6	Ammonia %	-1,38

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

No data available

12.6. Other adverse effects

No data available

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

160506

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of used product

160506

WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; laboratory chemicals, consisting of or containing dangerous substances, including mixtures of laboratory chemicals

Classified as hazardous waste.

Waste disposal number of contaminated packaging

150110

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by dangerous substances Classified as hazardous waste.

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the



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substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN2672

14.2. UN proper shipping name: AMMONIA SOLUTION relative density between 0.880 and 0.957 at 15 °C

in water, with more than 10% but not more than 35% ammonia by mass

14.3. Transport hazard class(es): 8

14.4. Packing group:IIIHazard label:8Classification code:C5Special Provisions:543Limited quantity:51

Limited quantity: 5 L
Transport category: 3
Hazard No: 80

Other applicable information (land transport)

F1

Tunnel restriction code:

Inland waterways transport (ADN)

14.1. UN number: UN2672

14.2. UN proper shipping name: AMMONIA SOLUTION relative density between 0.880 and 0.957 at 15 °C

F

in water, with more than 10% but not more than 35% ammonia by mass

14.3. Transport hazard class(es): 8
14.4. Packing group:

Hazard label: 8
Classification code: C5
Special Provisions: 543
Limited quantity: 5 L

Other applicable information (inland waterways transport)

E1

Marine transport (IMDG)

14.1. UN number: UN 2672

14.2. UN proper shipping name: AMMONIA SOLUTION relative density between 0.880 and 0.957 at 15°C in

water, with more than 10 % but not more than 35 % ammonia by mass

14.3. Transport hazard class(es): 8

14.4. Packing group:IIIHazard label:8Special Provisions:-Limited quantity:5 LEmS:F-A, S-B

Other applicable information (marine transport)

F1

Air transport (ICAO)

14.1. UN number: UN 2672

14.2. UN proper shipping name: AMMONIA SOLUTION relative density between 0.880 and 0.957 at 15°C in

water, with more than 10 % but not more than 35 % ammonia by mass

14.3. Transport hazard class(es):



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14.4. Packing group: III
Hazard label: 8

Special Provisions: A64 A803 Limited quantity Passenger: 1 L

IATA-packing instructions - Passenger: 852
IATA-max. quantity - Passenger: 5 L
IATA-packing instructions - Cargo: 856
IATA-max. quantity - Cargo: 60 L

Other applicable information (air transport)

E1 : Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

SECTION 15: Regulatory information

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

EU regulatory information

Additional information

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

National regulatory information

Water contaminating class (D): 2 - water contaminating

SECTION 16: Other information

Relevant R-phrases (Number and full text)

34 Causes burns.

Very toxic to aquatic organisms.

Relevant H- and EUH-phrases (Number and full text)

H314 Causes severe skin burns and eye damage.

H335 May cause respiratory irritation. H400 Very toxic to aquatic life.