



SAFETY DATA SHEET

Date of issue: 08/03/99

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

Identification of the product

Catalogue No: 101134

ID No.: 6645100

Product name: **Ammonium carbamate, GR, ACS**

Use of the substance/preparation: General chemical reagent

Manufacturer/supplier identification

Company: BDH Laboratory Supplies, Poole, Dorset, BH15 1TD, England
Telephone : + 44 (0) 1202 660444 Telefax : + 44 (0) 1202 666856

Emergency telephone No.: + 44 (0) 1202 669700

2. Composition/information on ingredients

Chemical characterization

Organic solid

Product name: Ammonium carbamate

CAS number: 1111-78-0

EC-No.: 214-185-2

3. Hazards identification

Harmful if swallowed.

4. First aid measures

- Eye contact: Irrigate thoroughly with water for at least 10 minutes. If discomfort persists, obtain medical attention.
- Inhalation: Remove from exposure, rest and keep warm. In severe cases obtain medical attention.
- Skin contact: Wash off thoroughly with soap and water. Remove contaminated clothing and wash before re-use. In severe cases, OBTAIN MEDICAL ATTENTION.
- Ingestion: Wash out mouth thoroughly with water and give plenty of water to drink. OBTAIN MEDICAL ATTENTION.

5. Fire-fighting measures

Special risks:

Combustible. May evolve toxic fumes in fire. (ammonia, carbon dioxide, nitrous gases)

Suitable extinguishing media:

Water

6. Accidental release measures

Wear appropriate protective clothing.
Take up dry. Forward for disposal. Clean up affected area.

7. Handling and storage

Handling:

Do not breathe dust. Change contaminated clothing. Wash hands after working with substance. Do not empty into drains.

Storage:

Store in a cool place (below 15°C). Keep well closed and protected from direct sunlight and moisture.

8. Exposure controls/personal protection

UK Exposure Limits:

OES, Ammonia, anhydrous:
Long term: 18 mg/m³ (25 ppm). Short term: 25 mg/m³ (35 ppm) (IOELV)

Personal protective equipment:

As appropriate to the situation and the quantity handled.

- Respirator: Self-contained breathing apparatus
- Ventilation: Fume cupboard
- Gloves: Rubber or plastic
- Eye Protection: Goggles or face-shield
- Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

Engineering methods to control or prevent exposure are preferred. Methods could include process enclosure or mechanical ventilation.

9. Physical and chemical properties

General information:

Form: solid
Colour: white
Odour: of ammonia

Health, safety and environmental information:

Melting temperature: Not available
Boiling temperature: Sublimes -60°C
Density(g/ml): 1.6
Vapour pressure: 80 mbar (20°C)
Solubility in water: 790 g/litre

10. Stability and reactivity

heat-sensitive, sensitive to air.

Substances to be avoided
nitrites.

11. Toxicological information

The data we have available are not sufficient to permit an industrial-toxicological assessment.

Possible effects:

- After inhalation of dust: dyspnoea
- After the uptake of large quantities: drowsiness.

Further hazardous properties cannot be excluded. The product should be handled with the care usual when dealing with chemicals.

Further data

LD50 1470 mg/kg oral, r a t

We have no evidence of carcinogenic effects. We have no evidence of mutagenic or teratogenic effects.

12. Ecological information

Toxic for aquatic organisms Do not allow to enter drinking water supplies, waste water, or soil!

The following applies to ammonium ions in general: biological effects: fish: toxic from 0.3 mg/l up; plankton: toxic from 0.3 mg/l up.

13. Disposal considerations

Chemical residues are generally classified as special waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a chemical disposal company. Rinse out empty containers thoroughly before returning for recycling.

14. Transport information

Not subject to transport regulations.

15. Regulatory information

Labelling according to EC directives

Symbol: Xn Harmful.

R-phrases: R22
Harmful if swallowed.

S-phrases:

EC-No.: 214-185-2

Local Regulations

Within the UK, the use of this material must be assessed under the Control of Substances Hazardous to Health (COSHH)

regulations.

16. Other information

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