



## SAFETY DATA SHEET

Date of issue: 28/03/01

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

#### Identification of the product

Catalogue No: 101145

ID No.: 1001700

Product name: **Ammonium chloride GR for Analysis, ACS,ISO**

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

Inorganic salt

Product name: Ammonium chloride

CAS number: 12125-02-9  
Molecular formula:  $\text{NH}_4\text{Cl}$  = 53.49 g/mol

EC-No.: 235-186-4

### 3. Hazards identification

Harmful if swallowed. Irritating to eyes.

### 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:

May evolve toxic fumes in fire.

#### Suitable extinguishing media:

To suit environment.

### 6. Accidental release measures

Wear appropriate protective clothing.  
If local regulations permit, mop up with plenty of water and run to waste, diluting greatly with running water. Otherwise transfer to container and arrange removal by disposal company. Wash site of spillage thoroughly with detergent and water.  
For large spillages liquids should be contained with sand or earth and both liquids and solids transferred to salvage containers.  
Any residues should be treated as for small spillages.

### 7. Handling and storage

#### Handling:

Change contaminated clothing. Wash hands after working with substance.

#### Storage:

Store at room temperature (15 to 25°C recommended). Keep well closed and protected from direct sunlight and moisture.

### 8. Exposure controls/personal protection

#### UK Exposure Limits:

OES, Ammonium chloride, fume:  
Long-term: 10 mg/m<sup>3</sup> Short term: 20 mg/m<sup>3</sup>

#### Personal protective equipment:

- As appropriate to the situation and the quantity handled.
- Respirator: Dust respirator
  - Ventilation: Extraction hood
  - Gloves: Rubber or plastic
  - Eye Protection: Goggles or face-shield
  - Other Precautions: Plastic apron, sleeves, boots - if handling large quantities

### 9. Physical and chemical properties

#### General information:

Form: solid  
Colour: colourless to white  
Odour: odourless

#### Health, safety and environmental information:

Melting temperature: Sublimes 335°C  
Boiling temperature: 520°C  
Density(g/ml): 1.53  
Vapour pressure: 1mmHg, 160°C  
Solubility in water: 370 g/l (20°C)

pH value: 5 (20°C)  
Flash point: Not applicable  
Explosion limits: lower: Not applicable  
Auto-ignition temperature: Not applicable

### 10. Stability and reactivity

hygroscopic.

Conditions to be avoided  
Strong heating.

Substances to be avoided  
alkali hydroxides, chlorine, chlorates, nitrates, nitrites, halogen-halogen compounds.

The possibility of reaction with other substances cannot be excluded.

Hazardous decomposition products  
ammonia, hydrochloric acid.

### 11. Toxicological information

- After inhalation: Irritation of the mucous membranes, coughing, and dyspnoea.
- After skin contact: slight irritation symptoms.
- After eye contact: irritant effect.
- After ingestion: Irritation of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract. After ingestion of large amounts: headache, nausea, unconsciousness.

#### Further data

LD50 1650 mg/kg oral, rat.

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

### 12. Ecological information

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: R22-36  
Harmful if swallowed. Irritating to eyes.

S-phrases: S22  
Do not breathe dust.

EC-No.: 235-186-4

#### 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

Revision.  
Supersedes issue of 18/08/94  
General update.

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