



SAFETY DATA SHEET

Date of issue: 24/01/03

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

Identification of the product

Catalogue No: 109057

ID No.: 1800700

Product name: **Hydrochloric acid 1 mol/l (N)**

Use of the substance/preparation: Analytical 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

Solution in water

Product name: Hydrochloric acid solutions less than 5%

CAS number: Not applicable (Solution in water)

EC-No.: Not applicable (Solution in water)

Hazardous ingredients:

Hydrogen chloride <5%
CAS number: 7647-01-0
Symbol: T C
R-phrases: R23-35
S-phrases: S9-26-36/37/39-45

EC-No.: 231-595-7

3. Hazards identification

Not classified as dangerous according to EC Directives.

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.

Health, safety and environmental information:

Melting temperature	Not available
Boiling temperature	Not available
Density(g/ml)	Not available
Solubility in water	Miscible in all proportions
pH value	~1
Flash point	Not applicable
Explosion limits: lower:	Not applicable
Auto-ignition temperature	Not applicable

10. Stability and reactivity

Stable.

Substances to be avoided :bases.
The possibility of reaction with other substances cannot be excluded.

11. Toxicological information

- After ingestion: Irritation of mucous membranes in the mouth, pharynx, oesophagus, and gastrointestinal tract.
- After skin contact: Irritation.
- After eye contact: Irritation.

Further data

No data

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

12. Ecological information

Harmful effect due to pH shift.

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

UN-No.: 1789 Class: 8
Proper shipping name: HYDROCHLORIC ACID SOLUTION

Packaging group: III

15. Regulatory information

Labelling according to EC directives

Not classified as dangerous according to EC Directives.

Additional statements to be shown on labels: Safety data sheet available for professional user on request.

- 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.

Absorb on an inert absorbent, (e.g. BDH Spillage absorption granules), transfer to a suitable container and arrange removal by disposal company. Wash site of spillage thoroughly with water and detergent.
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:

Wash hands and face thoroughly after working with material. Contaminated clothing should be removed and washed before re-use.

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 - Hydrogen chloride (gas and aerosol mists):
Long-term: 2 mg/m³ (1 ppm) Short-term: 8 mg/m³ (5 ppm) (ILV)

Personal protective equipment:

As appropriate to the situation and the quantity handled.

- Respirator: Not applicable
- Ventilation: Not applicable
- 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:	liquid
Colour:	colourless
Odour:	almost odourless

EC-No.: Not applicable (Solution in water)

Local Regulations

U.K. Transport Category 3

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

16. Other information

Reason for alteration: General update.
Revision.
Supersedes edition of: 29/10/97

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Text of R phrases listed in section 2

R23: Toxic by inhalation.
R35: Causes severe burns.