

**Material Safety Data Sheet HYDROCHLORIC ACID 0.1N**

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to employees, customers and users of this product. The contents and format of this MSDS are in accordance with EC Commission Directive 91/155EEC.

**1. Identification**

Chemical Name	Hydrochloric Acid solution less than 10%
Company ID No	19072
Emergency Phone No	01224 825394

**2.1 Composition/Information on ingredients**

Chemical characterisation	Solution in Water
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**3. Hazards Identification**

None

**4. First Aid Measures**

- Eye Contact
  - Irrigate thoroughly with water for at least 10 mins. Obtain medical attention
- Inhalation
  - Remove from exposure, rest and keep warm. In severe cases obtain medical attention
- Skin Contact
  - Wash off skin thoroughly with 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	Not applicable

**6. Accidental Release Measures**

Wear appropriate protective clothing. If local regulations permit, mop up cautiously 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 water.

For large spillage's liquid should be contained with sand or earth and transferred to salvage containers. Any residues should be treated as for small spillage.

**7. Handling and 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 (as appropriate to quantities handled)**

Protective Equipment	Goggles or face-shield, rubber or plastic gloves, plastic apron, sleeves and boots if handling large quantities
Respiratory Protection	Not applicable
Ventilation	Not applicable

**9. Physical and Chemical Properties**

Form	Liquid
Colour	Colourless
Odour	Almost odourless
Melting Point	n/a
Boiling Point	n/a
pH Value	<1
Solubility in Water (% weight)	Miscible in all proportions
Density (g/ml)	n/a

**10. Stability and Reactivity**

Stability	Stable
Substances to be Avoided	Bases

**11. Toxicological information**

After Ingestion	Irritation of mucous membrane in mouth, pharynx, oesophagus and gastrointestinal tract
After Skin contact	Irritation
After Eye contact	Irritation

No evidence of carcinogenic properties or mutagenic or teratogenic effects.

**12. Ecological Information**

No environmental hazard is anticipated provided that the material is handled and disposed of with due care and attention.

**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. Transportation Information**

UN No	N.R	IMDG class
IMO	N.R	Packing Group
IATA	N.R	Packing Group
Correct technical name	Hydrochloric Acid solution	ADR/RID

**15. Regulatory Information**

EEC Labelling

Symbol

R Phrase(s)

S Phrase(s)

Local Regulations OES, Short-term, mg/m<sup>3</sup>: 7 - Hydrogen chloride**16. Other Information**

All information, recommendations and suggestions herein concerning the above product are based upon data believed to be reliable, however, it is the users responsibility to determine the safety, toxicity, and suitability for his/her own use of the product described herein. The information herein should not be construed as being absolutely complete since additional information may be necessary or desirable when special or exceptional circumstances exist or because of applicable laws or regulations.

**Disclaimer**

The preceding is given in good faith as required under the health and safety at work act 1974, but no warranty is implied or given. The information provided is designed to enable the user to use the product safely. If the information is insufficient to ensure safety in any particular application, contact "the supplier" for further advice before proceeding.

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Rev Date 01.08.07