

Material Safety Data Sheet

HYDROCHLORIC ACID 15%

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 15%
 Company ID No
 Emergency Phone No 01224 825394
- 2.1 Composition/Information on ingredients - Hydrochloric Acid**
 Chemical characterisation Solution in water, Acid
 CAS No:- EEC No:- 231-595-7
- 3. Hazards Identification**
 Irritating to eyes, respiratory system and skin
- 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. Spread soda ash liberally over the spillage. 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 liquids 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 Fume cupboard or self-contained breathing apparatus
 Ventilation Use only in well ventilated area
- 9. Physical and Chemical Properties**
 Form Liquid
 Colour Colourless
 Odour Pungent
 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, aluminium, amines, carbides, hydrides, fluorine, alkali metals, conc sulphuric acid
- 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 (Do not allow to enter drinking water supplies, waste water, or soil)**
 Lethal for fish from 25mg/l up. Toxic for aquatic organisms: 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. Transportation Information**

UN No	1789	IMDG class	8
IMO	8/1789	Packing Group	II
IATA	1789	Packing Group	II
Correct technical name	Hydrochloric Acid Solution	ADR/RID: 8,5"(b)	

15. Regulatory Information

EEC Labelling	
Symbol	Irritant
R Phrase(s)	R/36/37/38
S Phrase(s)	S26
Local Regulations	

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.

Refer Scientific
Hareburn Terrace
Blackdog
Aberdeen
UK
AB23 8BE

Rev Date 01.08.07