



# SAFETY DATA SHEET

## HYDROCHLORIC ACID

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### 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

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**PRODUCT NAME:** HYDROCHLORIC ACID

**PART No.:** RM122

**SYNONYMS, TRADE NAMES:** SPIRIT OF SALTS; HYDROGEN CHLORIDE SOLUTION;

**APPLICATIONS:** Scope of this safety data sheet covers acid concentration of equal to or greater than 25%.

**SUPPLIER:** J M Loveridge plc  
Southbrook Road, Southampton  
Hampshire  
SO15 1BH  
Tel: 023 8022 2008  
Fax: 023 8022 2117

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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**EU INDEX No.:** 017-002-01-X

**EEC (EINECS) No.** 231-595-7

**CAS No.:** 7647-01-1

**COMPOSITION COMMENTS:** Contains HCl @ 32% w/w

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### 3. HAZARDS IDENTIFICATION:

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Causes burns. Irritating to respiratory system.

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### 4. FIRST AID MEASURES:

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**GENERAL:** IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION

**INHALATION:** Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration.

**INGESTION:** DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). Keep patient at rest and obtain medical attention.

**SKIN:** Remove contaminated clothing. Wash affected area with plenty of soap and water. Obtain medical attention. Launder clothing before re-use.

**EYES:** Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

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## 5. FIRE FIGHTING MEASURES:

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**EXTINGUISHING MEDIA:** Use extinguishing media suitable against surrounding fire or the cause of fire.

**HAZARDOUS COMBUSTION PRODUCTS:** Toxic or corrosive vapours may be released in fire situation.

**PROTECTIVE MEASURES IN FIRE:** Fire fighters should wear self-contained breathing apparatus.

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## 6. ACCIDENTAL RELEASE MEASURES:

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**PERSONAL PRECAUTION IN SPILL:** Avoid direct contact with skin, eyes and clothing. Do not breathe vapour or fumes. Wear appropriate protective clothing.

**PRECAUTIONS TO PROTECT ENVIRONMENT:** Prevent contamination of soil, drains and surface water.

**SPILL CLEANUP METHODS:** Small spillage: Dilute to waste with plenty of water. Larger spill: Neutralise spillage with alkaline material (sodium bicarbonate or soda-ash). Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements.

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## 7. HANDLING AND STORAGE:

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**USAGE PRECAUTIONS:** HANDLING - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Avoid vapour inhalation, skin and eye contact.

**STORAGE PRECAUTIONS:** Store in a cool, dry, well ventilated place, in securely closed original container.

**STORAGE CRITERIA:** Corrosive storage.

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## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

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| INGREDIENT NAME:  | CAS No.:  | STD | LT EXP 8 Hrs | ST EXP 15 Min |
|-------------------|-----------|-----|--------------|---------------|
| HYDROCHLORIC ACID | 7647-01-1 | OES | 1 ppm        | 5 ppm         |

**INGREDIENT COMMENTS:** Refer to the current edition of HSE Guidance Note EH 40/200\* for occupational exposure limits; as Hydrogen chloride (gas and aerosol mist) and not as hydrochloric acid

**VENTILATION:** Work in a fume cupboard or use local exhaust ventilation. Respiratory protection required in insufficiently ventilated working areas.

**RESPIRATORS:** For short periods of work, a suitable RPE fitted with a combination E1 filter cartridge is recommended.

**PROTECTIVE GLOVES:** Use impervious gloves.

**EYE PROTECTION:** Where the potential for eye contact exists, splash-proof goggles or face shield must be worn.

**OTHER PROTECTION:** Wear protective clothing and closed footwear.

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## 12. ECOLOGICAL INFORMATION:

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| <b>ECOLOGICAL INFORMATION:</b> | Avoid release to the environment. Prevent contamination of soil, drains or surface water, use appropriate containment method to avoid environmental contamination. |
| <b>BIO ACCUMULATION:</b>       | Not expected to bio-accumulate.  |
| <b>DEGRADABILITY:</b>          | Neutralised slowly by natural alkalinity.  |
| <b>ACUTE FISH TOXICITY:</b>    | Fatal to aquatic life due to pH shift.<br>Toxic to aquatic forms - 280ppm in fresh water and 100ppm in salt water.   |

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## 13. DISPOSAL CONSIDERATIONS:

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|--------------------------|---|
| <b>DISPOSAL METHODS:</b> | This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations. |
| <b>WASTE CLASS:</b>      | WASTE CODE:0705** HAZARDOUS PROPERTY: H8  |

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## 14. TRANSPORT INFORMATION:

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|--------------------------------|---|
| <b>UN No. ROAD:</b>            | 1789  |
| <b>UK ROAD PACK GR.:</b>       | II  |
| <b>ADR CLASS No.:</b>          | 8   |
| <b>ADR CLASS:</b>              | Class 8: Corrosive substances.                |
| <b>ADR ITEM No.:</b>           | 5 °(b)  |
| <b>HAZARD No. (ADR):</b>       | 80 Corrosive or slightly corrosive substance. |
| <b>ADR MARGINAL:</b>           | 2801  |
| <b>HAZCHEM CODE:</b>           | 2R  |
| <b>PROPER SHIPPING NAME I:</b> | HYDROCHLORIC ACID                             |
| <b>UN No. SEA:</b>             | UN 1789                                       |
| <b>IMDG CLASS:</b>             | 8   |
| <b>IMDG PAGE No.:</b>          | 8174  |
| <b>IMDG PACK GR.:</b>          | II  |
| <b>UN No., AIR:</b>            | UN-ID 1789                                    |
| <b>ICAO CLASS:</b>             | 8   |
| <b>AIR PACK GR.:</b>           | II  |

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## 15. REGULATORY INFORMATION:

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**LABEL FOR SUPPLY:**



**RISK PHRASES:** R-34 Causes burns.  
R-37 Irritating to respiratory system.

**SAFETY PHRASES:** S-1/2 Keep locked up and out of the reach of children.  
S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**UK REGULATORY REFERENCES:** Classification, Packaging and Labelling Regulations 1984, Chemicals (Hazard Information & Packaging) Regulations 1993.

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**16. OTHER INFORMATION:**

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**INFORMATION SOURCES:** This product has been classified in accordance with CHIP3 regulations.

**REVISION COMMENTS:** Edition 01; Revised item(s):

**ISSUED BY:** MK

**SDS No.:** 233

**DATE:** 12/07/02

**DISCLAIMER:** The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.