



# SAFETY DATA SHEET

## FERRIC CHLORIDE SOLUTION 15%

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

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|---------------|------------------------------------------------------------------------------------------------------------------------|
| PRODUCT NAME: | FERRIC CHLORIDE SOLUTION 15%                                                                                           |
| PART No.:     | M053                                                                                                                   |
| SUPPLIER:     | J M Loveridge plc<br>Southbrook Road, Southampton<br>Hampshire<br>SO15 1BH<br>Tel: 023 8022 2008<br>Fax: 023 8022 2117 |

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### 2. COMPOSITION/INFORMATION ON INGREDIENTS:

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### 3. HAZARDS IDENTIFICATION:

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Causes burns.

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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.                                                                                                                                                                                                            |
| 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. If irritation persists, seek medical attention. Launder clothing before re-use.                                                                                                                             |
| EYES:       | Keeping eye open, immediately irrigate with water or eye-wash for 15 minutes. Obtain medical attention.                                                                                                                                                                                     |

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### 5. FIRE FIGHTING MEASURES:

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|-----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| EXTINGUISHING MEDIA:              | This material is not flammable. Use extinguishing media suitable against surrounding fire or the cause of fire.                                                                                     |
| SPECIAL FIRE FIGHTING PROCEDURES: | Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations. |

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|---------------------------------------|---------------------------------------------------------------|
| <b>HAZARDOUS COMBUSTION PRODUCTS:</b> | Toxic or corrosive vapours may be released in fire situation. |
| <b>PROTECTIVE MEASURES IN FIRE:</b>   | Fire fighters should wear self-contained breathing apparatus. |

## 6. ACCIDENTAL RELEASE MEASURES:

|                                            |                                                                                                                                                                                                                       |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PERSONAL PRECAUTION IN SPILL:</b>       | Avoid direct contact with skin, eyes and clothing.                                                                                                                                                                    |
| <b>PRECAUTIONS TO PROTECT ENVIRONMENT:</b> | Prevent contamination of soil, drains and surface water.                                                                                                                                                              |
| <b>SPILL CLEANUP METHODS:</b>              | 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. |

## 7. HANDLING AND STORAGE:

|                             |                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>USAGE PRECAUTIONS:</b>   | <b>HANDLING</b> - Product should be used in accordance with good industrial principles for handling and storing of hazardous chemicals. Avoid contact with skin or eyes. |
| <b>STORAGE PRECAUTIONS:</b> | Store in a cool, dry, well ventilated place, in securely closed original container.                                                                                      |
| <b>STORAGE CRITERIA:</b>    | Corrosive storage.                                                                                                                                                       |

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

| <b>INGREDIENT NAME:</b>      | <b>CAS No.:</b> | <b>STD</b> | <b>LT EXP 8 Hrs</b> | <b>ST EXP 15 Min</b> |
|------------------------------|-----------------|------------|---------------------|----------------------|
| FERRIC CHLORIDE SOLUTION 15% |                 |            | 1 mg/m <sup>3</sup> | 2 mg/m <sup>3</sup>  |

|                                 |                                                                                                                                 |
|---------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>INGREDIENT COMMENTS:</b>     | Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits; - listed as Iron salts (as Fe)   |
| <b>VENTILATION:</b>             | Provide adequate general and local exhaust ventilation.                                                                         |
| <b>RESPIRATORS:</b>             | For short periods of work, a suitable RPE fitted with a combination E1 filter cartridge is recommended.                         |
| <b>PROTECTIVE GLOVES:</b>       | Use protective gloves.                                                                                                          |
| <b>EYE PROTECTION:</b>          | Use approved safety goggles or face shield.                                                                                     |
| <b>OTHER PROTECTION:</b>        | Wear appropriate clothing to prevent any possibility of skin contact.                                                           |
| <b>HYGIENIC WORK PRACTICES:</b> | <b>SKIN PROTECTION</b> - apply barrier cream to hands and exposed skin. Promptly remove any clothing that becomes contaminated. |

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

|                                         |                         |                          |  |
|-----------------------------------------|-------------------------|--------------------------|--|
| <b>APPEARANCE:</b>                      | Dark brown oily liquid. |                          |  |
| <b>BOILING POINT (°C, interval):</b>    | > 100 °C                | <b>Pressure:</b>         |  |
| <b>DENSITY/SPECIFIC GRAVITY (g/ml):</b> | 1.1                     | <b>Temperature (°C):</b> |  |
| <b>pH-VALUE, CONC. SOLUTION:</b>        | < 2                     |                          |  |

**SOLUBILITY DESCRIPTION:** Soluble in water. Miscible with water in all proportions.

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## 10. STABILITY AND REACTIVITY:

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**STABILITY:** Stable under normal conditions of use.

**CONDITIONS TO AVOID:** Reacts with alkalis and generates heat. Contact with hypochlorites liberates chlorine.

**HAZARDOUS DECOMP. PRODUCTS:** Thermal decomposition may release noxious, toxic or corrosive gases or vapours. - hydrogen chloride (HCl).

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## 11. TOXICOLOGICAL INFORMATION:

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**HEALTH HAZARDS, GENERAL:** Corrosive to eyes, skin and mucous membranes.

**INGESTION:** Ingestion will cause gastric irritation and vomiting.

**SKIN:** May cause serious chemical burns of the skin.

**EYES:** Causes severe burns.

**HEALTH WARNINGS:** INGESTION. May cause burns in mucous membranes, throat, oesophagus and stomach.

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## 12. ECOLOGICAL INFORMATION:

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**ECOLOGICAL INFORMATION:** No specific information available, but material is expected to have adverse effect on the environment.

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## 13. DISPOSAL CONSIDERATIONS:

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**DISPOSAL METHODS:** 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.

**WASTE CLASS:** WASTE CODE:0705\*\* HAZARDOUS PROPERTY: H8

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## 14. TRANSPORT INFORMATION:

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**LABEL FOR CONVEYANCE:**

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|-------------------------|-----------------------------------------------|
| UN No. ROAD:            | 2582                                          |
| UK ROAD PACK GR.:       | III                                           |
| ADR CLASS No.:          | 8                                             |
| ADR CLASS:              | Class 8: Corrosive substances.                |
| ADR ITEM No.:           | 5°(c)                                         |
| HAZARD No. (ADR):       | 80 Corrosive or slightly corrosive substance. |
| ADR MARGINAL:           | 2801                                          |
| ADR LABEL No.:          | 8                                             |
| HAZCHEM CODE:           | 2Z                                            |
| PROPER SHIPPING NAME I: | FERRIC CHLORIDE SOLUTION                      |
| UN No. SEA:             | UN 2582                                       |
| IMDG CLASS:             | 8                                             |
| IMDG PAGE No.:          | 8173                                          |
| IMDG PACK GR.:          | III                                           |
| EmS No.:                | 8-03                                          |
| UN No., AIR:            | UN-ID 2582                                    |
| ICAO CLASS:             | 8                                             |
| AIR PACK GR.:           | III                                           |

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## 15. REGULATORY INFORMATION:

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### LABEL FOR SUPPLY:



|                 |                                                                                                                                                                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RISK PHRASES:   | R-34 Causes burns.                                                                                                                                                                                                                                                                                                                                   |
| SAFETY PHRASES: | S-24/25 Avoid contact with skin and eyes.<br>S-36/37/39 Wear suitable protective clothing, gloves and eye/face protection.<br>S-26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.<br>S-45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). |

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

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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.:** M057

**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.