

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Wuxal Manganese EDTA
Chemical Name: -
Synonyms: -
Group Name: -
Formula: -
Approved Use: Agricultural Foliar feed.
Supplier: DHM Agrochemicals Limited,
Telephone No: Castle Lodge,
Fax No: Kilgobbin Road,
Issued By: Dublin 18

EMERGENCY TELEPHONE NUMBER: 01-2952377

2. COMPOSITION/INFORMATION ON INGREDIENTS

| No. | Name |
|-----|---|
| 1. | Manganese (as dipotassium manganese ethylene diamine tetra acetate) |
| 2. | Water. |

| No. | CAS No. | R Phrases | Concentration | Classification |
|-----|---------|-----------|-----------------------|----------------|
| 1. | - | - | 6.4 % w/v (Manganese) | Ik |
| 2. | - | - | to 100% | Ik |

Legend: Tx = Very Toxic, C = Corrosive, Xn = Harmful, Xi = Irritant, Ik = No Classification Required, E = Explosive, O = Oxidising, Fx = Extremely Flammable, F = Very Flammable, Fo = Flammable, N = Dang. To the Environment, M = Genotoxic, A = Sensitizing, K = Carcinogenic, R = Causes birth defects, H = skin absorption

3. HAZARDS IDENTIFICATION

No specific risk when handled in accordance with good occupational hygiene and safety practice.

4. FIRST-AID MEASURES

General: Always seek medical advice in cases of serious personal contamination.

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| Inhalation: | Not specifically applicable. |
| Skin Contact: | Rinse with plenty of water. |
| Eye Contact: | Rinse immediately with plenty of water (for at least 15 minutes). |
| Ingestion: | Rinse mouth out with water. |
| Medical Information: | For specialist advice doctors should contact the nearest Poisons Information Centre . |

5. FIRE-FIGHTING MEASURES

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| Suitable Extinguishing Media: | All extinguishing agents can be used. |
| Unsuitable Extinguishing Media: | None to our knowledge. |
| Special Exposure Hazards: | Aqueous liquid. Does not present any particular risk in the event of fire. |
| Protective Equipment: | Appropriate gloves. Safety glasses. |

6. ACCIDENTAL RELEASE MEASURES

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| Personal Precautions: | Appropriate gloves. Safety glasses. |
| Environmental Precautions: | Do not discharge in to drains or rivers. |
| Methods for Cleaning Up: | Absorb the product onto porous material. Recover the product by scraping with a spatula. |

7. HANDLING AND STORAGE

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| Handling: | Handle and use in accordance with good occupational hygiene and safety practice. |
| Storage: | Store away from food, drink, and animal feeding stuffs. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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| Precautions: | Wash hands before meals and after work. Store in original container, tightly closed in a safe place. |
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| Protective Clothing: | Store away from children, pets, livestock and foodstuffs. Appropriate gloves made of PVC. Safety glasses with side shields. Light overall. |
| Occupational Exposure Limits: | None. |

9. PHYSICAL AND CHEMICAL PROPERTIES

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| Appearance: | Clear, orange-amber liquid. |
| Odour: | Weak. |
| pH: | 6.5 - 7.5 (aqueous solution - 2g/100ml) |
| Boiling Point/Boiling Range: | Approximately 100 °C |
| Flash Point: | Not applicable. |
| Flammability: | Not applicable. |
| Autoflammability: | Not applicable. |
| Explosive Properties: | Not applicable. |
| Oxidizing Properties: | Non-oxidising. |
| Relative Density: | 1.32 g/cm ³ (at 20 °C) |
| Solubility (water and fat): | Miscible in water (in all proportions) Insoluble in common organic solvents. |

10. STABILITY AND REACTIVITY

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| Conditions to Avoid: | No dangerous reactions under normal conditions of use. |
| Materials to Avoid: | None known. |
| Hazardous Decomposition Products: | On combustion or on thermal decomposition the following are released: Carbon oxides and Nitrogen oxides. |

11. TOXICOLOGICAL INFORMATION

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| Acute Toxicity: | LD ₅₀ oral (Rat): > 2000 mg/kg. |
| Irritation: | May cause slight temporary irritation to ocular mucous membranes. |

12. ECOLOGICAL INFORMATION

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| Mobility: | Ultimate destination of the product: Soil. |
| Degradability: | Slightly biodegradable. |

13. DISPOSAL CONSIDERATIONS

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| Product and Waste: | Discharging waste into rivers and drains is forbidden. Dispose of at a licensed site. |
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Containers: Recycle following cleaning or dispose of at a licensed site.

14. TRANSPORT INFORMATION

Special Transport Precautions: None.
Road/Rail Classification: Not restricted.
IMDG Classification: Not restricted.
Air Classification: Not restricted.

15. REGULATORY INFORMATION

R-Phrases
None.

S-Phrases
None.

16. OTHER INFORMATION

Revision No. 0 Date Prepared: 25/06/98
Revision No. 1 Revision Date: 24/06/02
Revision No. 2 Revision Date: 26/07/04 Supplier details correction, change tel. no.

DISCLAIMER

The information in the MSDS relates to this specific material. If the product is used as a component in any other product, this MSDS may not be valid. The information contained was obtained from sources which we believe are reliable. The information is provided without any warranty, expressed or implied, regarding its correctness.

This Material Safety Data Sheet was prepared according to Directive 93/112/EEC.