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| Date: | 25.06.02 |
| Revision of: | 25/02/00 |
| Sections revised: | 9 |

MATERIAL SAFETY DATA SHEET

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| SECTION 1 | IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY |
| <i>Product name</i> | F2830-09 Zintrac 700 |
| <i>Manufacturer</i> | Phosyn plc, Manor Place, Wellington Road, The Industrial Estate, Poeldington, York. YO42 1DN U.K. Tel: 01759 302545 Fax: 01759 303650 |
| <i>Distributor</i> | |

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| SECTION 2 | COMPOSITION/INFORMATION ON INGREDIENTS |
| <i>Active ingredients</i> | 700 g/l Zinc |
| <i>Intended use</i> | Treatment of zinc deficiency in agricultural crops by foliar application. |

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| SECTION 3 | HAZARDS IDENTIFICATION |
| <i>CHIP classification</i> | Not classified, as hazardous for supply or conveyance. |
| <i>Adverse human health effects</i> | Large oral doses may cause nausea, fever and stomach cramps. Eye contact may cause irritation. |

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| SECTION 4 | FIRST AID MEASURES |
| <i>Skin</i> | Remove contaminated clothing, wash skin with water. |
| <i>Eyes</i> | Irrigate thoroughly with running water. |
| <i>Inhalation</i> | Remove patient to fresh air. |
| <i>Ingestion</i> | If swallowed wash mouth out with water - obtain medical advice. |
| <i>Further action</i> | If any symptoms persist or arise after exposure, seek medical advice as soon as possible. |

| SECTION 5 FIRE-FIGHTING MEASURES | |
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| <i>Suitable extinguishing media</i> | Product non-flammable and compatible with all types of extinguishing media. Choice of media governed by other materials present. |
| <i>Extinguishing media not to be used</i> | Governed by other materials present. |
| <i>Exposure hazards arising from fire</i> | None known. |
| <i>Special protective equipment</i> | Self contained breathing apparatus recommended. |

| SECTION 6 ACCIDENTAL RELEASE MEASURES | |
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| <i>Personal precautions</i> | Avoid direct contact with product. |
| <i>Environmental precautions</i> | Care should be taken not to contaminate water courses with high concentrations, and local authorities should be consulted before disposal of significant quantities. |
| <i>Methods of cleaning up</i> | Small spillages to be washed away with plenty of water. Large spillages to be contained and absorbed in sand or earth, collected in plastic containers and disposed of in accordance with local regulations. Wash area with water. |

| SECTION 7 HANDLING AND STORAGE | |
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| <i>Handling</i> | Avoid direct contact with product. Use personal protection specified in Section 8. |
| <i>Storage</i> | Store in a cool place free from frost. |

| SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION | |
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| Goggles and rubber or PVC gloves to be worn when handling product. | |
| Have eye wash bottles with clean water available. | |
| A mist type respirator is recommended when spraying. | |

| SECTION 9 | | PHYSICAL AND CHEMICAL PROPERTIES | |
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| <i>Appearance</i> | White liquid suspension concentrate. | <i>Vapour pressure</i> | Not known. |
| <i>Odour</i> | Slight. | <i>Relative density</i> | 1.734 |
| <i>pH</i> | 9 | <i>Solubility</i> | Miscible with water in all proportions. |
| <i>Boiling point/Boiling range</i> | >100°C | <i>Partition Co-efficient: n-octane/water</i> | Not known. |
| <i>Melting point/Melting range</i> | -7°C | <i>Explosive properties</i> | None known. |
| <i>Flash point</i> | N/A | <i>Oxidising properties</i> | None known. |
| <i>Flammability</i> | Non flammable. | <i>Autoflammability</i> | N/A |
| <i>Other data:</i> | | | |

| SECTION 10 | | STABILITY AND REACTIVITY | |
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| <i>Conditions to avoid</i> | Extremes of temperature. | | |
| <i>Materials to avoid</i> | None. | | |
| <i>Hazardous decomposition products</i> | None known. | | |

| SECTION 11 | | TOXICOLOGICAL INFORMATION | |
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| <i>Skin</i> | Non toxic by skin absorption. | | |
| <i>Eyes</i> | May be irritant. | | |
| <i>Inhalation</i> | May be irritant. | | |
| <i>Ingestion</i> | May cause nausea, fever and stomach cramps if ingested in excessive quantities. LD50 oral rat (cal) >2000 mg/kg | | |
| <i>Long term effects</i> | None known where product is used under conditions of good industrial hygiene. | | |

| SECTION 12 ECOLOGICAL INFORMATION | |
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| <i>Mobility</i> | Product is miscible with water. The zinc is in a non water soluble form. |
| <i>Persistence and degradability</i> | Zinc is a fundamental inorganic nutrient and is persistent. |
| <i>Bioaccumulative potential</i> | The product is designed to accumulate zinc in crops to the benefit of their nutrition. There is no adverse bioaccumulative potential in mammals at normal dietary intake levels when product has been used as recommended. |
| <i>Aquatic toxicity and related ecotoxicity</i> | High concentrations in water courses may be injurious to aquatic life. |

| SECTION 13 DISPOSAL CONSIDERATIONS | |
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| Refer to Section 6. | |
| Observe all legal requirements. | |

| SECTION 14 TRANSPORT INFORMATION | |
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| Not classified as hazardous for conveyance. | |
| In the event of a road accident, mark road and warn other road users. | |
| Keep public away while cleaning up (see Section 6). | |

| SECTION 15 REGULATORY INFORMATION | |
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| <i>Label health and safety information (Reg N° 9 CHIP)</i> | Not classified as hazardous by the CHIP regulations, therefore no statutory label health and safety information required. |
| <i>Any EEC specific provisions</i> | Not covered by the Dangerous Substances Directive or amendment. |
| <i>The information contained in this Safety Data Sheet does not constitute the users own assessment of workplace risk as required by other Health and Safety legislation.</i> | |

| SECTION 16 OTHER INFORMATION | |
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| <i>Advice</i> | Contact the address in Section 1 for any further advice or information. |
| <i>Recommended uses</i> | As a foliar zinc application to agricultural crops to treat zinc deficiency. |
| <i>Sources of data</i> | CHIP regulations 1994: Phosyn Technical Library. |
| <i>This information has been prepared from the best knowledge available to us, however, we cannot be liable for any insufficiency or inaccuracy in such information in any case whatsoever.</i> | |