

# MATERIAL SAFETY DATA SHEET

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Trade Name:** Zinc 93 EDTA  
**Chemical Name:** Dipotassium zinc ethylene diamine tetra acetate aqueous solution  
**Synonyms:** --  
**Group Name:** --  
**Formula:** --  
**Approved Use:** Agricultural Foliar Feed  
**Supplier:** **DHM Agrochemicals Limited,**  
**Castle Lodge,**  
**Kilgobbin Road,**  
**Dublin 18**

**EMERGENCY TELEPHONE NUMBER: 01-2952377**

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

| No. | Name                  |
|-----|-----------------------|
| 1.  | Dipotassium Zinc EDTA |
| 2.  | Water.                |

| No. | CAS No.    | R Phrases | Concentration | Classification |
|-----|------------|-----------|---------------|----------------|
| 1.  | 14689-29-3 | ---       | 9.3% w/w      | Ik             |
| 2.  | ---        | ---       | to 1 litre    | 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

Human: Non hazardous.

Environment: Non hazardous.

## 4. FIRST-AID MEASURES

**General:** Be sure it is safe to approach the casualty. Before giving first aid always put on personal protective equipment if you are likely to be contaminated.  
**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. Contact a doctor if necessary.  
**Medical Information:** For specialist advice doctors should contact the nearest **Poisons Information Centre.**

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## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media:** All extinguishing agents can be used  
**Unsuitable Extinguishing Media:** None identified.  
**Special Exposure Hazards:** Aqueous liquid. Does not present any particular risk in the event of fire.  
**Protective Equipment:** Suitable protective clothing should be worn.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:** Avoid contact with skin and eyes  
*Hand protection:* Chemical resistant gloves.  
*Eye Protection:* Tightly fitting safety goggles  
*Body Protection:* Protective suit  
**Environmental Precautions:** Do not let product enter drains, surface waters or ditches  
**Methods for Cleaning Up:** Absorb the product onto porous material. Recover the product scraping with a spatula or a similar instrument. Dispose of in accordance with local regulations

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## 7. HANDLING AND STORAGE

**Handling:** No specific measures necessary provided the product is used correctly.  
**Storage:** Product must only be kept in the supplier's packaging. Store separately from food, feed and consumable items.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Precautions:** Wear suitable protective gloves when handling the concentrate or contaminated surfaces.  
When using do not eat drink or smoke.  
Wash hands and exposed skin before meals and after work.  
Keep away from food, drink and animal feeding stuffs  
**Keep out of reach of children.**

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Keep in original container, tightly closed in a safe place  
Do not contaminate surface waters or ditches with chemicals or used container.

Do not allow direct spray from ground-based vehicles, vehicle-mounted /drawn sprayers to fall within 6 metres of surface waters and ditches, direct spray away from water.

**Protective Clothing:**

*Respiratory Protection:* If ventilation is suitable, it is not essential to wear respiratory equipment.

*Hand Protection:* Chemical resistant gloves.

*Eye Protection:* Tightly fitting safety goggles with side shields.

*Body Protection:* Protective suit.

**Occupational Exposure Limits:**

No Information.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                     |  |
|-------------------------------------|--|
| <b>Appearance:</b>                  | Clear, slightly yellow   |
| <b>Odour:</b>                       | weak   |
| <b>pH:</b>                          | 6.5-7.5 (Aqueous solution - 2g/100ml )   |
| <b>Boiling Point/Boiling Range:</b> | Approx. 100° C   |
| <b>Melting Point/Melting Range:</b> | Not applicable   |
| <b>Flash Point:</b>                 | Not applicable ( aqueous liquid )  |
| <b>Flammability:</b>                | Non flammable  |
| <b>Autoflammability:</b>            | Non flammable  |
| <b>Explosive Properties:</b>        | Not applicable   |
| <b>Oxidizing Properties:</b>        | Non oxidizing material according to EEC criteria   |
| <b>Relative Density:</b>            | 1.31 g/cm <sup>3</sup> at 20° C  |
| <b>Solubility (water and fat):</b>  | Miscible ( in all proportions). Approx. 1340g/l in water.<br>Insoluble in common organic solvents. |
| <b>Partition Coefficient:</b>       | No Information available   |

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## 10. STABILITY AND REACTIVITY

|  |  |
|--|--|
| <b>Conditions to Avoid:</b>              | Stable at ambient temperature and under normal conditions of use   |
| <b>Materials to Avoid:</b>               | None   |
| <b>Hazardous Decomposition Products:</b> | On combustion or on thermal decomposition ( pyrolysis ) releases:<br>( Carbon oxides {CO + CO <sub>2</sub> } ) |

## 11. TOXICOLOGICAL INFORMATION

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

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## 12. ECOLOGICAL INFORMATION

**Mobility:** No information available  
**Degradability:** Slightly biodegradable  
**Accumulation:** No information available

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### 13. DISPOSAL CONSIDERATIONS

**Product and Waste:** Dispose of material or solid residues at a licensed site. The users attention is drawn to the possible existence of local regulations regarding disposal.  
**Containers:** Containers should be disposed of in the same manner as the contents.

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### 14. TRANSPORT INFORMATION

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

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### 15. REGULATORY INFORMATION

**R Phrases**  
None.  
**S Phases**  
None

### 16. OTHER INFORMATION

Version No: 0                      Date Prepared: 09.09.98  
Revision No. 1                     Revision Date: 24.06.02  
Revision No. 2                     Revision Date: 26/07/04 Supplier details correction, change tel. no.

DISCLAIMER

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

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