



Billericay Farm Services Limited

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: LiquiTec Zinc
Chemical Name: Zinc Sulphate
Synonyms: --
Group Name: --
Formula: ZnSO₄
Approved Use: Agricultural Foliar Feed
Supplier: Billericay Farm Services Ltd.
Downham
Billericay
Essex
CM11 1QU
Telephone No: 01268 710237
Fax No: 01268 711040
Issued By: Billericay Farm Services Ltd.

EMERGENCY TELEPHONE NUMBER: PLEASE ADD

2. COMPOSITION/INFORMATION ON INGREDIENTS

No. **Name**
1. Zinc Sulphate
2. Water.

No.	EINECS No.	R Phrases	Concentration	Classification
1.	---	---	15% w/v	N
2.	---	---		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 absorpti on

3. HAZARDS IDENTIFICATION

Environment: Dangerous to the Environment
Irritant



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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:	If large concentrations of spray mist are inhaled remove to fresh air and keep warm. If symptoms persist seek medical attention.
Skin Contact:	Contact with the skin may cause irritation. If symptoms persist seek medical aid. Rinse immediately with copious amounts of water.
Eye Contact:	Contact with eyes may cause irritation. If symptoms persist seek medical aid. Irrigate with plenty of eyewash or clean water for 15 minutes minimum. Seek medical advice.
Ingestion:	May cause diarrhoea, nausea, vomiting and cramps. DO NOT induce vomiting. Rinse mouth out and give plenty of water/milk to drink. If vomiting occurs place patient in the recovery position. Seek medical aid.
Medical Information:	For specialist advice doctors should contact the nearest Poisons Information Centre .

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media:	This product is not classified combustible or flammable. Suitable for most extinguishing media.
Unsuitable Extinguishing Media:	None to our knowledge.
Special Exposure Hazards:	Aqueous liquid. Does not present any particular risk in the event of fire. Fumes and vapours may be harmful.
Protective Equipment:	Respiratory protective device, suitable for potassium and sulphur oxides, with a combined gas and particle filter. Appropriate gloves. Safety glasses/face shield.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid contact with skin and eyes. Avoid unnecessary contact with product. Remove all contaminated clothing. Wash hands and face before eating. <i>Hand protection:</i> Chemical resistant gloves. <i>Eye Protection:</i> Tightly fitting safety goggles <i>Body Protection:</i> Protective suit
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Environmental Precautions:	Rinse empty containers with water and add to spray mix. Dispose of containers at a suitable site. Do not discharge into drains or watercourses.
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. Inform the proper authorities if gross contamination of water is threatened or occurs.

7. HANDLING AND STORAGE

Handling:	Handle and use in accordance with good occupational hygiene and safety practice. Avoid skin and eye contact. Wear full overall protective clothing, PVC or rubber gloves and boots. If exposed to high vapour concentration in a confined area, wear self contained breathing apparatus.
Storage:	Keep well sealed in original containers. Store in frost-free conditions above 5°C. Store away from combustible materials, herbicides, fungicides and consumables.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Precautions:	<p>Wear suitable protective gloves when handling the concentrate or contaminated surfaces.</p> <p>When using do not eat drink or smoke.</p> <p>Wash hands and exposed skin before meals and after work.</p> <p>Keep away from food, drink and animal feeding stuffs</p> <p>Do not contaminate surface waters or ditches with chemicals or used container.</p> <p>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.</p> <p>Store in original container, tightly closed in a safe frost-free place.</p> <p>Store away from children, pets, livestock and foodstuffs.</p>
Protective Clothing:	<p>If ventilation is suitable, it is not essential to wear personal respiratory protection during the handling of this product.</p> <p>Appropriate chemical resistant gloves made of PVC or rubber, and boots.</p> <p>Safety glasses with side shields/goggles or face shield to BS2092.</p> <p>Wear full protective overall.</p>
Occupational Exposure Limits:	Not specified.



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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Opaque light grey
Odour:	Weak
pH:	6.5-7.5 (Aqueous solution - 2g/100ml)
Boiling Point/Boiling Range:	Approx. 100° C
Flash Point:	Not applicable.
Flammability:	Not applicable.
Autoflammability:	Not applicable.
Explosive Properties:	Not applicable.
Oxidizing Properties:	Non oxidizing material according to EEC criteria
Relative Density:	1.3 g/cm ³ at 20° C
Solubility (water and fat):	Miscible in water (in all proportions) Soluble in common organic solvents.

10. STABILITY AND REACTIVITY

Conditions to Avoid:	Hazardous reactions are unlikely to occur under normal conditions of storage and use.
Materials to Avoid:	None known.
Hazardous Decomposition Products:	On combustion or on thermal decomposition (pyrolysis) releases: (sulphur oxides {SO ₂ })

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	Not Known
Irritation:	May cause slight temporary irritation to skin and eyes
Sensitisation:	Non-Sensitizer.

12. ECOLOGICAL INFORMATION

Mobility:	Ultimate destination of the product: Soil.
Degradability:	Biodegradable



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13. DISPOSAL CONSIDERATIONS

Product and Waste:	Dispose of material or solid residues at a licensed site. The user's attention is drawn to the possible existence of local regulations regarding disposal.
Containers:	Do not re-use packaging for any other purpose. Dispose of used packaging in accordance with Special Waste Regulations 1980.

14. TRANSPORT INFORMATION

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

15. REGULATORY INFORMATION (NOT APPLICABLE)

Hazard Symbol Dangerous to the Environment

R Phrases

- R 36/38 Irritating to the eyes and skin
- R50 Very toxic to aquatic organisms
- R53 May cause long-term adverse effects in the aquatic environment

S Phases

- S22 Do not breathe dust/spray.
 - S2 Keep out of reach of children
 - S25 Avoid contact with the eyes.
 - S60 This material and/or its container must be disposed of as hazardous waste.
 - S61 Avoid release into the environment. Refer to special instructions /safety data sheet
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16. OTHER INFORMATION

Revision No. 0

Date Prepared: 26/11/2005

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.