



Billericay Farm Services Limited

MATERIAL SAFETY DATA SHEET

1. PRODUCT AND COMPANY IDENTIFICATION

Trade Name: LiquiTec Copper
Chemical Name: Copper
Synonyms: --
Group Name: --
Formula: CuSO₄
Approved Use: Trace Element Supplement
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. Copper Sulphate

No.	EINECS No.	R Phrases	Concentration	Classification
1.	233-139-2	--	6%	Xn, N

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: May be mildly irritating to skin and eyes. Harmful if swallowed.

Environment: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.



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4. FIRST-AID MEASURES

General:	Always seek medical advice in cases of serious personal contamination.
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. Wash immediately with soap and rinse 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. 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. All extinguishing agents can be used. Prevent entry of product or contaminated water into watercourses, ditches or drains.
Unsuitable Extinguishing Media:	None to our knowledge.
Special Exposure Hazards:	Aqueous liquid. Does not present a burn risk in the event of fire. If involved in a 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
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Environmental Precautions:

before eating.

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:

Evacuate area. Absorb and contain spillage with sand or earth. Place waste in sealed containers. Contact Local Authority for controlled waste disposal. Notify Water Authority if large spillage enters drains, sewers or watercourses.

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. Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems.

Storage:

Product must only be kept in the supplier's packaging. Keep well sealed in original containers. Store in frost-free conditions above 2°C. Store away from combustible materials, herbicides, fungicides and consumables.

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. Store away from children, pets, livestock and foodstuffs.

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.

Avoid breathing mist whilst spraying

Store in original container, tightly closed in a safe frost-free place.

Protective Clothing:

Respiratory Protection: If ventilation is suitable, it is not essential



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to wear respiratory equipment.

Hand Protection: Chemical resistant gloves made of PVC or rubber, and boots.

Eye Protection: Tightly fitting safety goggles with side shields/ goggles or face shield to BS2092.

Body Protection: Wear full protective overall.

Occupational Exposure Limits:

Not specified.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Blue Liquid
Odour:	None.
pH:	5.5 – 7.5 (product as is)
Boiling Point/Boiling Range:	Approximately 110 °C
Flash Point:	Not applicable.
Flammability:	Not applicable.
Autoflammability:	Not applicable.
Explosive Properties:	Not applicable.
Oxidizing Properties:	Non-oxidising.
Relative Density:	1.28 +/- 0.02 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 be mildly irritating to skin and eyes.
Sensitisation:	Non-Sensitizer.



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12. ECOLOGICAL INFORMATION

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

13. DISPOSAL CONSIDERATIONS

Product and Waste: Require controlled waste disposal in accordance with Control of Pollution Act, 1974 and Special Waste Regulations 1980.
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)

R-Phrases	-	R22 R36/38 R50, 53	Harmful if swallowed Irritating to skin and eyes Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
S-Phrases	-	S(2) S22 S60 S61	Keep out of reach of children Do not breathe dust This material and/or its container must be disposed of as hazardous waste. 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.