

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Trade Name: Cropearnicus

Manufacturer: GroTech Production, Britannia road, Goole, East Yorkshire, DN14 6ET, UK

Tel: +44 (0) 1405 761746, Crop Intellect Ltd, Sparkhouse, Rope Walk, Lincoln, LN6 7DQ, UK

Supplier: Howseman Agriculture Ltd, Tel: 01775 822146, Crop Intellect Ltd, Rope Walk, Lincoln, LN6 7DQ, UK Tel: +44(0)1522 837268

Product use: Fertiliser, Agriculture/Horticulture, Crop Nutrition

2. Hazards Identification

Main Hazards: Irritant, Harmful - Do not ingest, inhale, or contact with skin (absorption)

Workplace/Storage exposure limits: This substance doesn't have an exposure limit.

Safety phrases: X_n (R20-22), X_i (R36,R37, R38), S2 Keep out of the reach of children, S13 Keep away from food, drink and animal foodstuffs S20 When using do not eat or drink, S24 Avoid contact with skin, S25 Avoid contact with eyes, S26 In case of contact with eyes, rinse immediately with plenty of water for 15 minutes and seek medical advice, S28 After contact with skin, wash immediately with plenty of water, S36 Wear suitable protective clothing, S37 Wear suitable gloves, S45 In case of accident or if you feel unwell seek medical advice immediately, S46 If swallowed, seek medical advice immediately and show this container or label. H314: Causes severe skin burns and eye damage, H318: Causes serious eye damage, Due to Manganese - Cat. 1B H360: May damage fertility or the unborn child, H411: Toxic to aquatic life with long lasting effects

3. Composition/Information on Ingredients

Copper Sulphate: CAS #: 7758-99-8, CuSO₄.5H₂O, 1% w/w

Manganese Sulphate: CAS #: 7785-87-7, MnO₄S, 1% w/w

Zinc Sulphate: CAS #: 7446-20-0, ZnSO₄.7H₂O, 0.5% w/w

Phosphorous Acid: CAS # 13598-36-2, 13.5% w/w

Other: Boron (Boric Acid) 0.1% w/w, Fe (Ferrous Sulphate) 0.5% w/w, Mg (Magnesium) 2.4% w/w

4. First Aid Measures

Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention.

Skin Contact: In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

Inhalation: If inhaled for a prolonged duration, remove to fresh air. Get medical attention.

Ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If the materials are swallowed, call a physician immediately.

5. Fire Fighting Measures

Extinguishing media: Suitable extinguishing media for the surrounding fire should be used such as water spray, foam, carbon dioxide or dry powder. To cool containers use water spray

Exposure hazard: In combustion emits irritant vapours and toxic fumes

Protection equipment for Fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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6. Accidental Release Measures

Personal precautions: Refer to section 8 of SDS for personal protection details. Turn leaking containers leak side up to prevent the escape of liquid. Mark out the contaminated area with signs and prevent access to unauthorised personnel.

Environmental precautions: Do not discharge into drains or rivers. Contain the spill using bunding.

Clean-up procedures: Absorb into dry earth or sand. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

7. Handling and Storage

Precautions: Do not ingest. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes.

Handling requirements: Avoid direct contact with the substance.

Storage conditions: Store in cool, well-ventilated area. Keep container tightly closed.

Suitable packaging: Must only be kept in original packaging.

8. Exposure Controls/Personal Protection

Hand protection: Protective gloves.

Eye protection: Safety glasses. Ensure eye bath is to hand.

Skin protection: Protective clothing.

Engineering measures: A respirator is not needed under normal and intended conditions of use.

9. Physical and Chemical Properties

State: Liquid

Colour: Dark brown

Odour: Perceptible odour

Evaporation rate: Slow

Solubility in water: Highly soluble

Relative density: 1.315 +/- 0.01

Product pH: 1.6

10. Stability and Reactivity

Stability: The product is stable.

Instability Temperature: > 35°C (store in cool place)

Conditions of reactivity: Not available.

Conditions of Instability: Excess heat (high temperatures), incompatible materials, incompatibility with various substances - alkalis.

Conditions to avoid: Heat

11. Toxicological Information

Chronic toxicity: Irritant to eyes, skin and throat if exposed by contact, May be harmful by ingestion or skin absorption

Routes of exposure: Refer to section 4 of SDS for routes of exposure and corresponding symptoms.

12. Ecological Information

Mobility: Readily absorbed into the soil

Persistence and degradability: Biodegradable

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Bio-accumulative potential: No bioaccumulation potential (Note: heavy metals are absorbed by plants but typically not transferable to animals)

Other adverse effects: Negligible ecotoxicity

13. Disposal Considerations

Disposal operations: Materials should be disposed of in accordance with local, state and federal regulations.

Disposal of packaging: Dispose of as special waste in compliance with local and national regulations. Observe all federal, state and local environmental regulations.

Note: The generation of waste should be avoided or minimized wherever possible. Avoid dispersal and runoff to waterways, drains and sewers. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional and local authority requirements.

14. Transport Information

Transport: Not classified as hazardous for transport

15. Regulatory Information

Hazard symbol: Irritant, Harmful, No significant hazard - **Xn R22, Xi R36/37/38**

Also refer to section 2 of this SDS for identification of hazards



Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. Other Information

Address: Crop Intellect Ltd, Enterprise@Lincoln, Rope Walk, Lincoln, LN6 7DQ, UK, Mobile: +44 (0) 7500 794140

Office: +44 (0) 1522 837268, **Email:** info@cropintellect.co.uk

Website: www.cropintellect.co.uk

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Product Trade Logo



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