



# DELTA CHEMICALS (PTY) LTD.

CHEMICAL MANUFACTURERS OF:  
ZINC CHLORIDE  
COPPER OXYCHLORIDE

Reg. No. 86/01984/07

52 Galloway Street  
Meyerton 1961  
South Africa

☒ 598 Meyerton 1960  
☎ (016) 362-0707/362-0708

Telefax: (016) 362-1239

E-mail: pegmatite@cyberserv.co.za

## SPECIFICATION

ACTIVE INGREDIENT : COPPER OXYCHLORIDE 850G/KG (85%)

Description	:	Light green, odourless, non-flammable, fine powder. The product consists of a homogeneous mixture containing copper oxychloride as the sole active ingredient together with the necessary formulants.
Copper Content	:	50 ± 2,5% m/m
pH of 1% suspension	:	6.0 minimum
Particle size	:	60% Less than 2 micron 95% Less than 5 micron
Surface Area	:	30 000cm <sup>2</sup> /g min.
Suspensibility	:	Not less than 85% remains in suspension after Tropical storage when tested with standard hard water. (CIPAC 1 MT 15.1 PAGE 861)
Moisture Content	:	2,0% (Maximum)
Wet Sieve Test	:	Not more than 0.05% m/m retained on a 100 mesh B.S. Sieve.
Wetting Time	:	30 Seconds (maximum) (CIPAC 1 MT 53.3 PAGE 966)
Lead	:	250 p.p.m. Maximum.
Free Copper	:	50 p.p.m. Maximum.
Arsenic	:	Not detectable.
Cadmium	:	Not detectable.



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**COMPANY DETAILS**

P O BOX 598  
MEYERTON 1960  
SOUTH AFRICA

TEL : (016) 362 0707  
FAX : (016) 362 1239

DATE:

**DEMILDEX**

**1. PRODUCT IDENTIFICATION**

Trade Name:	Demildex	Cas No:	1332-40-7
Chemical Family:	Copper Compound	NIOSH No:	Not applicable
Chemical Name:	Copper Oxychloride	Hazchem No:	Not applicable
		UN No:	Not applicable

**2. COMPOSITION**

Hazardous Components:	Copper (Cu) present as Copper Oxychloride
EEC Classification:	Not applicable
R Phrases:	Not applicable

**3. HAZARDS IDENTIFICATION**

Main Hazard:	The ingestion of a large quantity is followed by nausea and vomiting. A metallic taste and a burning sensation in the oesophagus and stomach.
Flammability:	Non-flammable.
Chemical Hazard:	None, if powder is kept dry. Wet powder is corrosive to most metals.
Biological Hazard:	None.
Reproduction Hazard:	None.
Health Effects	
- eyes:	Causes irritation.
- skin:	Causes irritation.
- ingestion:	Causes nausea and vomiting. Additional burning sensation in the oesophagus and stomach.
- inhalation:	Dust causes irritation.
Carcinogenicity:	Not applicable.
Mutagenicity:	Not applicable.
Neurotoxicity:	Not applicable.

**4. FIRST AID MEASURES**

Product in eye:	Wash eyes immediately with large amounts of water (for at least 15 minutes), occasionally lifting upper and lower lids and then with a diluted solution of sodium bicarbonate.
Product on skin:	Remove contaminated clothing and wash affected area with soap and water.
Product ingested:	The stomach should be emptied by aspiration and lavage and demulcents such as milk or egg white should be given freely.
Product inhaled:	Move person to fresh air.



## RE FIGHTING MEASURES

Extinguishing Media:	Dry chemical powder, carbon dioxide, water spray or regular foam. For larger fires use water spray, fog or regular foam.
Special Hazards:	Negligible fire hazard when exposed to heat or flame. Toxic and irritating vapours are generated when heated. Thermal decomposition may release corrosive chlorine gas.
Protective Clothing:	Appropriate full body protection and a self-contained breathing apparatus must be worn.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Avoid breathing dust, wear dust mask if necessary. Avoid contact with eyes wear goggles if necessary. Avoid contact with skin; wear rubber gloves and long sleeved shirt and trousers.
Environmental Precautions:	Do not allow to enter drains, sewers or watercourses.
Small Spills:	Sweep spills up, place in clean container and remove to chemical waste site.
Large Spills:	Sweep spills up, place in clean container and remove to chemical waste site.

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## 7 HANDLING AND STORAGE

Suitable Material:	Wear rubber gloves and dust mask when preparing the spray, in a well-ventilated area.
Handling/Storage Precautions:	Store in a dry and well-ventilated area under lock and key. Avoid overheating and do not store for long periods in direct sunlight. Shelf life is 2 years. Moisture or heat may cause decomposition.

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## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational Exposure:	Wash exposed parts of body with water and soap after handling.
Engineering Control Measures:	Provide adequate ventilation.
Personal Protection:	
- respiratory:	Avoid breathing dust. Wear dust mask if necessary.
- hand:	Wear rubber gloves when preparing the spray.
- eye:	Avoid contact with eyes. Wear safety goggles if necessary.
- skin:	Avoid contact with skin. Wear long sleeved shirts and trousers.
Other Protection:	Incompatible with strong acids or bases. After use and before eating, drinking or smoking wash arms and face with soap and water. Wash contaminated clothing each day after use.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Light green fine powder
Odour:	None
pH:	6 minimum to 9.5
Boiling point:	Not applicable.
Melting point:	Not applicable.
Flash point:	Not applicable.
Auto-flammability:	Not flammable.
Explosive properties:	Not applicable.
Oxidising properties:	Not relevant.
Vapour pressure:	Not applicable.
Density:	0,7 to 0,8 Kg/litre.
Solubility:	Insoluble.
Solubility-coefficient:	10 <sup>-12</sup>
Neurotoxicity:	Not applicable.

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## 10. STABILITY AND REACTIVITY

Conditions to avoid:	Attacks most common metals when dispersed in water.
Incompatible materials:	None.
Hazardous decomposition products:	Thermal decomposition may release chloride gas fumes.

## 11. TOXICOLOGICAL INFORMATION

Acute Toxicity:	
- inhalation:	Dust will cause irritation and coughing.
- ingestion:	The ingestion of a large quantity of Copper Oxochloride is followed by nausea and vomiting. A metallic taste and a burning sensation in the oesophagus and stomach. LD <sub>50</sub> value = 1 667mg/Kg.
Skin and eye contact:	Powder is irritating to skin. Dust is irritating to eyes.
Chronic Toxicity:	Frequent persistent contact with the skin can cause skin irritation.
Carcinogenicity:	Not Applicable.
Mutagenicity:	Not Applicable.
Reproductive hazards:	Unknown.

## 12. ECOLOGICAL INFORMATION

Aquatic Toxicity:	
- fish:	180 ppm Blue Gill, Salmo Trutta, Salmo Gairdnerii. Large discharges in suspension may be fatal to fish.
- daphnia:	Large discharges might influence aquatic organisms.
- algae:	Large discharges might influence aquatic plants.
Bioaccumulation:	Does not bio-accumulate.
Mobility:	Dust cloud is mobile when driven by wind.
German WGK:	Not applicable.

## 13. DISPOSAL CONSIDERATIONS

Disposal Methods:	Bury in an approved landfill, avoiding contamination of waterways.
Disposal of Packaging:	The packing units should be completely emptied (drop-free, cleaned with a towel). The packing material should be recycled or re-used, in accordance with the relevant, applicable local/national regulations.

## 14. TRANSPORT INFORMATION

In the eyes of the International Transport Confederation this product is considered non-hazardous.

## 15. REGULATORY INFORMATION

EEC Hazard:	Corrosive.
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## 16. OTHER INFORMATION

Information in this publication is believed to be accurate and given in good faith, and does not represent any guarantee or properties.