

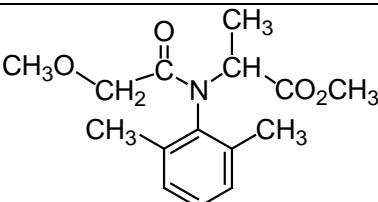
## SAFETY DATA SHEET

### Mancosil Plus 50%WP

#### SECTION 1. IDENTIFICATION OF THE SUBSTANCE

**Trade name :** Mancosil Plus 50%WP  
**Common Name:** Copper Oxychloride 35% + Metalaxyl 15%  
**Chemical Name (IUPAC):**  
 (Copper Oxychloride): dicopper chloride trihydroxide  
 (Metalaxyl): methyl *N*-(methoxyacetyl)-*N*-(2,6-xylyl)-DL-alaninate; methyl 2-[[[(2,6-dimethylphenyl)methoxyacetyl]amino]propionate  
**CAS No.:**  
 (Copper Oxychloride): 1332-40-7  
 (Metalaxyl): [57837-19-1]

**Structure:**

(Copper Oxychloride)	(Metalaxyl):
$Cu_2Cl(OH)_3$	

#### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance	Conc.	Uses
<b>Active ingredient</b>		
Copper Oxychloride	35%	Use as Fungicide
Metalaxyl	15%	
<b>Inert ingredient</b>		
Carrier	50%	
Total	100%	

### SECTION 3. HAZARDS IDENTIFICATION

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#### Effects of overexposure

Moderately irritating to skin and eye, harmful if swallowed, may cause irritation of the nose and throat and cause coughing and chest discomfort if inhalation.

#### Hazardous Decomposition Products

Maybe decompose at high temperature forming toxic gases.

### SECTION 4.FIRST AID MEASURES

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Eye	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes, then continue rinsing eye.
Skin	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.
Ingestion	Do not give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.
Inhalation:	Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.
Note to physician	No antidote is available. Treat patient symptomatically.

### SECTION 5.FIRE FIGHTING MEASURES

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<b>Flammability:</b>	Not auto flammable
<b>Extinguishing media:</b>	Foam, Carbon dioxide, Dry chemical or Water spray (fog)
<b>Thermal decomposition products:</b>	Non known
<b>Special fire fighting methods:</b>	Use self contained breathing apparatus
<b>Unusual fire or explosion hazards:</b>	None

### SECTION 6.ACIDENTAL RELEASE MEASURES

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Isolate area. Avoid skin contact. Use recommended protective equipment while carefully sweeping up and place in covered container for re-use if possible. Scrub contaminated area with soap and water. Repeat and rinse with water. Prevent contamination of streams, sewers or other waterways.

## **SECTION 7.HANDLING AND STORAGE**

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Store the material in a well ventilated, secure area out of reach of children and domestic animals. Do not store food, drink in areas where they may become contaminated with this material. Wash thoroughly after contact the material. Keep only in the original container.

## **SECTION 8.EXPOSURE CONTROL/PERSONAL PROTECTION**

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### **Applicators and other handlers must wear:**

Coveralls over short-sleeved shirt and short pants.

Chemical-resistant footwear plus socks.

Chemical-resistant gloves, such as barrier laminate or butyl rubber.

Protective eyewear.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

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<b>Dispersing test</b>	Accepted	(CIPAC F p.45 MT 15 )
<b>Wetting time</b>	15 Sec	( CIPAC F p.160 MT 53 )
<b>Particle size</b>	>80%	0.4 mm
<b>Persistent foam test</b>	Accepted	(CIPAC F p. 140 MT43)
<b>Physical state</b>	powder	
<b>Color</b>	green	
<b>Appearance density</b>	0.55 gm/cm <sup>3</sup>	( CIPAC F p.11 MT 3 )
<b>Bulk density</b>	0.76 gm/cm <sup>3</sup>	( CIPAC F p.11 MT 3 )
<b>pH solution 1%</b>	8	
<b>water content</b>	0.3%	
<b>Flowability</b>	Free flow	

## **SECTION 10.STABILITY AND REACTIVITY**

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Chemical Stability: Stable at normal temperatures and storage conditions.

Condition to avoid: Non known

Materials to avoid: Strong oxidizing agents

Polymerization: Polymerization will not occur.

Hazardous decomposition products:

Maybe decompose at high temperature forming toxic gases.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

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Acute oral toxicity	LD50 for rats 1470 mg/kg
Acute dermal toxicity	LD50 for rats >2000mg/kg
Acute inhalation toxicity	LC50 (rat, 4hr) for rats >30mg/l (tech)
Skin irritation	Irritant to skin (rabbit)
Eye irritation	Irritant to eye (rabbit)
Sensitization	Not a sensitiser (Guinea pig)
Reproductive/ developmental effects:	None observed
Chronic/Subchronic toxicity:	None observed
Carcinogenicity:	None observed.
Other toxicity information:	
Toxicity class:	WHO (a.i.) III

## **SECTION 12. ECOLOGICAL INFORMATION**

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Birds	Low toxic to birds.
Fish:	Toxic to fish, LC50 (48h) for carp 2.2mg/l (tech.)
Daphnia:	LC50 (24h) 3.5mg/l (tech)
Bees:	No toxic to honeybees
Environmental Fat	:Strongly absorbed by soils.

## **SECTION 13. DISPOSAL INSTRUCTION**

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Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are acutely hazardous. Triple rinse (or equivalent) the container. Then offer for recycling or reconditioning. If allowed by state and local authorities, by burning. If burned, stay out of smoke.

## **SECTION 14. TRANSPORT INFORMATION**

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Considered non-hazardous for transport. UN Hazard Class: 6.1. transported or stored in clearly labelled rigid and leakproof containers, under lock and key, secure from access by unauthorized persons and children. No food or drink should be transported or stored in the same compartment.

## **SECTION 15. REGULATORY INFORMATION**

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UN Hazard Class: 6.1, UN Number 2775, WHO: III, EPA toxicity class III. It is a General Use Pesticide (GUP).

## **SECTION 16. OTHER INFORMATION**

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The data given here is based on current knowledge and experience. The purpose of this safety data sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

Proper use is as an agricultural fungicide. Use according to label instructions.