

SAFETY DATA SHEET	Page 1 of 7
	Date issued: 08. 06. 2001
Product name: CUPRABLAU Z WP Ultra	Date revised: 22. 05. 2009
	Revised version No.: 03

1. Chemical product and supplier identification:								
1.1.	Product identification:	CUPRABLAU Z WP Ultra	Identification No.: P014320					
1.2.	Product use:	Contact fungicide						
1.3.	Supplier identification (manufacturer, importer, distributor):							
1.3.1.	Supplier name:	CINKARNA CELJE, Inc.						
1.3.2.	Supplier address:	Kidričeva 26, 3001 CELJE – SLOVENIA, +386 3 427 60 00						
1.3.3.	Contact person:	E – mail: vesna.gabersek@cinkarna.si						
1.3.4.	Emergency number:	+386 3 427 61 12 (Cinkarna Celje)						
2. Hazard identification:								
2.1.	Hazards:	Xn R: 20						
2.2.	Specific hazards:	Soluble in dilute acids /forming Cu(II) salts/ and in ammonium hydroxide /forming a complex ion/.						
2.3.	Symptoms after exposure:	<ul style="list-style-type: none"> - Inhalation: Harmful. - Skin contact: May cause sensitization. - Contact with eyes: Damage to eyes. - Ingestion: May cause nausea and vomiting. 						
2.4.	Danger to environment:	Toxic to aquatic organisms.						
3. Composition with information on hazardous ingredients:								
3.1.	Common name:	CUPRABLAU Z Ultra						
3.2.	Hazardous ingredients: Complex: copper hydroxide and calcium chloride							
Chemical name		Registration number	Index No.	CAS No.	EC No.	t./vol%/max concentrate.	Hazard symbol	Risk Phrases
Complex: copper hydroxide and calcium chloride, 3Cu(OH) ₂ · CaCl ₂		327-02-278/00/3				77,5 wt.%	Xn	20

Product name: CUPRABLAU Z WP Ultra

4. First aid measures:

4.1.	General instructions:	Avoid inhalation of dust.
4.2.	Inhalation:	Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
4.3.	Contact with skin:	Remove contaminated clothing and shoes. Wash with plenty of water until no evidence of chemical remains.
4.4.	Contact with eyes:	Hold eyelids open and flush with water for 15 minutes.
4.5.	Ingestion:	Wash out mouth with water and give water to drink. Do not induce vomiting. Seek medical attention.
4.6.	First aid at work:	In every case of suspected poisoning contact a doctor or a Poisons Information Centre.

5. Fire-fighting measures:

5.1.	Suitable extinguishing medium:	Use dry chemical, carbon dioxide, water spray, or foam.
5.1.1.	Extinguishing media which shall not be used for safety reasons:	A jet of water.
5.2.	Special exposure hazards:	Oxides of copper may be produced.
5.3.	Special protective fire fighting equipment, indicated by standard if any:	n.a.

6. Accidental release measures:

6.1.	Personal safety measures:	Fungicide applicators & workers must refer to the Product Label and Directions For Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection.
6.2.	Environment protection:	Do not allow rinsate from cleaning of equipment or disposed material to enter surface or ground water. Do not contaminate water by disposal of equipment washwaters.
6.3.	Cleaning after accidental discharge:	<p>Use proper personal protective equipment as indicated in Section 8.</p> <p>Land Spill: Sweep up and place in suitable containers for later disposal. Avoid infiltration into surface and ground water.</p> <p>Methods for cleaning up: Flush remainder with water (Absorb the remainder with sand, earth, vermiculite).</p> <p>Water Spill: If feasible, copper may be precipitated/ultrafiltrated with caustics or other chemicals and resulting sludge disposed of in a chemical landfill. According to local regulations.</p> <p>Environmental hazards: This fungicide is toxic to fish and aquatic organisms. Do not allow rinsate from cleaning of equipment or disposed material to enter surface or ground water. Do not contaminate water by disposal of equipment washwaters.</p>

Cinkarna Celje, SAFETY DATA SHEET	Page 3 of 7
Product name: CUPRABLAU Z WP Ultra	

7. Handling and storage:

7.1.	Handling:	
7.1.1.	Safety measures:	Do not breathe dust, vapour, mist. Use only in a well-ventilated area. Minimize dust generation and accumulation.
7.1.2.	Technical measures:	Store protected from moisture.
7.1.3.	Recommended and forbidden measures:	Avoid ingestion and inhalation. Wash contaminated clothing and other protective equipment before storing or re-using.
7.2.	Storage:	
7.2.1.	Conditions for safe storage:	Store product in close original container in a dry, well-ventilated area away from incompatible substances. Store protected from moisture.
7.2.2.	Separating incompatible products:	Keep away food, feed and drinking water.
7.2.3.	Special packaging:	/
7.2.4.	Protection against static electricity:	n.a.
7.3.	Specific use:	Cuprablau Z Ultra is a preventive, contact fungicide used for controlling grapevine, potato, tomato, onion and hop disease; apple, pear, peach and drupe disease.

8. Exposure control/personal protection:

8.1.	Exposure limit values:	n.a.
8.2.	Exposure control:	Ventilation.
8.2.1.	Health and safety measures at the workplace:	
	Personal protection:	
	Respiratory system protection:	In enclosed spaces where the TLV may be exceeded, wear NIOSH approved dust or mist respirator.
	Skin and body protection:	Coveralls over short-sleeved shirt and long pants; shoes plus socks.
	Hand protection:	Chemical-resistant gloves made of any waterproof material.
	Eye protection:	Protective eyewear.
	General work hygiene:	Wash contaminated clothing and other protective equipment before storing or re-using.
8.2.2.	Environment exposure control:	n.a.

9. Physical and chemical properties:

9.1.	General information:	
	- appearance	Wettable powder (WP), green-blue color.

Product name: **CUPRABLAU Z WP Ultra**

	- odour	Odourless.
9.2.	Important health, safety and ecological information:	
	- pH:	7,0 to 8,0 (1% water suspension, 20°C).
	- Boiling point:	Decomposes on heating above 200 °C.
	- Melting point:	Decomposes on heating above 200 °C
	- Flash point:	n.a.
	- Ignition point (for solids and gases):	n.a.
	-Explosive properties (upper/lower border):	n.a.
	- Oxidation properties:	n.a.
	- Vapour pressure:	n.a.
	- Relative density:	n.a.
	- Solubility (in water and fats):	Water: < 10 µg/l Cu.
	- Partition coefficient: n-octanol/water	n.a.
	- Other data:	/
	- Note:	/

10. Stability and reactivity:

10.1.	Stability and reactivity:	The product is stable under normal conditions and in neutral media.
10.1.1.	Conditions to avoid:	Dilute acids, Ammonium Hydroxide.
10.1.2.	Incompatibility with other substances:	Pesticides wich cause acid reaction.
10.2.	Hazardous products of decomposition:	This product is unlikely to spontaneous decompose.
10.3.	Other data:	/

11. Toxicological information:

11.1.	Acute effects (acute toxicity, irritation and corrosivity):	Acute oral LD50/Rat: > 2000 mg/kg Acute oral LD50/Mouse: 2235,5 mg/kg Dermal Irritation/Rabbit: Non irritating. Ocular Irritation/Rabbit: Non irritating.
11.2.	Chronic toxicity or repeated dose toxicity:	None known.
11.3.	Oversensibility:	None known.

Cinkarna Celje, SAFETY DATA SHEET	Page 5 of 7
Product name: CUPRABLAU Z WP Ultra	

11.4.	Specific effects(CMR effects-carcinogenity,mutagenicity and toxicity for reproduction:	None known.
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12. Ecological information:

12.1.	Ecotoxicity:	<p>Mobility-EC50/Daphnia magna Straus: 0,116 mg/l.</p> <p>Growth-EC50/Algae Scenedesmus subspicatus: 0,62 mg/l (on surface); 10,03 (increase).</p> <p>Reproduction-EC50/Bacterium Pseudomonas putida Migula: 0,574 mg/l (linear regression); 0,636 mg/l (interpolation).</p> <p>Acute Toxicity-LD50/Fish Brachydanio rerio Hamilton-Buchanan: 5,6 mg/l.</p> <p>Bee toxicity: Non toxic.</p>
12.2.	Mobility:	The degree of mobility of copper in the environment depends upon the pH of ambient soils and water. The higher the acidity, the more soluble copper salts are and, hence, the more mobile.
12.3.	Persistence and degradability:	<p>Long term degradation products may arise.</p> <p>At pH > 5 copper is practically immobilised. Copper mobilization increases with the acidity growth (strong effect already at pH < 4,5).</p>
12.4.	Bioaccumulative potential:	Bioaccumulation occurs only when copper is biologically abundant. Due to copper adsorption and compexity this abundance is greatly reduced depending on pH value and the presence of other cations. This is why copper rarely is a sign of toxicity.
12.5.	Results of PBT assessment:	/
12.6.	Other adverse effects:	Do not contaminate streams, rivers or waterways.

13. Disposal considerations:

13.1.	Product:	Product wastes are hazardous. Dispose in accordance with applicable Federal, State and Local laws and regulations.
13.2.	Contaminated packaging:	Dispose in accordance with applicable Federal, State and Local laws and regulations.


14. Transport information:

14.1.	ADR, RID:	ADR: 60 / 2775
14.2.	UN number:	2775
14.3.	Name:	Pesticide base on Copper, Solid, Toxic.
14.4.	Class:	6.1
14.5.	Classification code:	T7
14.6.	Packaging group:	III

Cinkarna Celje, SAFETY DATA SHEET	Page 6 of 7
Product name: CUPRABLAU Z WP Ultra	

14.7.	Hazard label:	6.1
14.8.	Tunnel restriction code (TRC):	(E)

15. Regulatory information:

15.1.	EC classification, letter, hazard labels, S and R (with the text), special regulations:	
15.1.1.	Classification:	Xn
15.1.2.	Labelling:	R: 20 S: 2-13-45-61 X _n  HARMFUL
15.1.3.	Risk Phrases:	R 20 Harmful by inhalation.
15.1.4.	Safety Phrases:	S 2 Keep out of the reach of children. S 13 Keep away from food, drink and animal feeding stuffs. S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S 61 Avoid release to the environment. Refer to special instructions(safety data sheets). Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
15.1.5.	Special provisions:	/
15.2.	Regulations /Standards:	EEC Directives.

16. Other information:

16.1.	Write out the full text of any R phrases referred to under heading 2 and 3 of the SDS:	20
16.2.	Staff training:	Course from safety of health at work, fire safeties and treatments with hazardous chemicals.
16.3.	Recommended or restricted use of product:	n.a.
16.4.	Instructions:	Please read all labels carefully before use.
16.5.	Sources:	Institute where studies was conducted: National Institute of Biology , Ljubljana,Slovenia. Testing methodology used: EEC/EU. EEC Directives.
16.6.	Revised issue:	Change a form.

Cinkarna Celje, SAFETY DATA SHEET	Page 7 of 7
Product name: CUPRABLAU Z WP Ultra	

Labeling according to EEC Directives.

The information in this Material Safety Data Sheet relates to this specific material.

It is based on the present state of our knowledge and experience.

Recipients of our product must take responsibility for observing existing laws and regulations.