US ERA ARCHIVE DOCUMENT

DATE OUT: 21 June 2000

SUBJECT: EP [ ] MP [x] PRODUCT CHEMISTRY REVIEW

DP BARCODE No.: D263588

REG./File Symbol No.: 73020-R

**PRODUCT NAME:** Copper Sulfate Pentahydrate Manuf.

COMPANY: Emron Corp.

TO: PM #22, Cynthia Giles-Parker/Janet Whitehurst

Fungicide Branch

Registration Division (7505C)

FROM: Bruce F. Kitchens, Chemist

Technical Review Branch

Registration Division (7505C)

# INTRODUCTION:

The registrant, Emron Corporation, is submitting a "Me Too" application for the registration of the new end-use product, Copper Sulfate Pentahydrate Manufacturing Use. The active ingredient in this product is Copper Sulfate Pentahydrate at 99% a.i. and is intended for use as a manufacturing use product and for non pesticidal industrial use. In addition, the registrant states that the proposed product is substantially similar to E.P.A. Reg. No. 35896-20. In support of this request, the registrant has submitted a basic Confidential Statement of Formula (CSF) dated 29 Dec 1999, a draft label, and product chemistry data contained in MRID#s 450268-01 and -02. The Technical Review Branch (TRB) has been asked to review this submission.

#### SUMMARY OF FINDINGS:

TRB has reviewed this submission and reports the following findings:

- There are no inert ingredients in this product.
- The proposed product and the referenced product have the same active ingredient.
- The proposed product lists several related impurities; however, no nominal concentration or upper certified limit was provided.
- The nominal concentration listed on the draft label and the CSF are the same.

- The draft label contains the appropriate storage and disposal statements.
- The certified limits as proposed on the CSF are acceptable.

## **CONCLUSIONS:**

TRB has reviewed this submission and concludes the following:

- The CSF dated 29 Dec 1999 is not acceptable because the related impurities listed on the CSF do not have a nominal concentration or the upper certified limit listed on the CSF.
- This submission meets the data requirements as specified in 40 CFR 158.167, 158.175, and 158.180 with respect to discussion of formation impurities, certified limits, and enforcement analytical method. The data requirements with respect to product identity and composition (158.155), description of materials used to produce the product (158.160), description of production process (158.162), and preliminary analysis (158.170) are outstanding.
- This submission also satisfies the data requirement as specified in 40 CFR 158.190 with respect to physical and chemical characteristics.

## EP [ ] MP [x] PRODUCT CHEMISTRY REVIEW

1.	DP BARCODE No.: D263588 2. REG./File Symbol No.: 73020-R
3.	Registration [x] 4. Reregistration [], Rereg Case No
5.	Product Name: Copper Sulfate Pentahydrate Manufacturing Use
6.	Pesticide Type: Fungicide [x] Herbicide [] Insecticide [] Rodenticide [] Antimicrobial [] Plant Growth Regulator [] Others:
7.	Uses: Food [] Non food use [x]
8.	Type of Submission: New [x] Resubmission [] Amendment [] "ME-TOO" [x] Alternate Formulation [] Repack [] Experimental Use Permit [] Other (Specify)
9.	If "Me-TOO" Registration, this product is $[x]$ is not $[]$ similar or substantially similar to EPA's Reg. No.: $35820-20$ ,
	If not, comment in Confidential Appendix A on the differences between the registered and the new source where significant.
CONF	IDENTIAL STATEMENT OF FORMULA, DATED (29 Dec 1999):
	Type of formulation and the sources of active ingredients:
	Type of formulation and the sources of active ingredients:
	Type of formulation and the sources of active ingredients:  a. Non-integrated formulation system
	Type of formulation and the sources of active ingredients:  a. Non-integrated formulation system
10.	Type of formulation and the sources of active ingredients:  a. Non-integrated formulation system
10.	Type of formulation and the sources of active ingredients:  a. Non-integrated formulation system
10.	Type of formulation and the sources of active ingredients:  a. Non-integrated formulation system

		4			
	yes	[x]	no	[ ]	
13.	The certified li 40CFR§158.175 or				
	yes	[x]	no	[ ]	
14.	Clearance of to formulation for the formulatio			dients	in the
	a. Formulation	intended for fo	od use under	40CFR§18	0.1001:
	yes [ ] no	[x] Some are	cleared, othe	rs are n	ot [ ]
	Cleared und	er list: c [	] d[]	1	e [ ]
	b. Formulation	intended for no	n-food use:		
	yes [x] no	[ ] Some are	cleared, othe	rs are n	ot [ ]
15.	For products products all impurities of				
	yes [ ]	no [x]	not	applicab	le [ ]
	All other impuringredient in to				
	yes [ ]	no [x]	not	applicab	le [ ]
PROD	UCT LABEL, EPA REG	CEIVED (draft)	:		
16.	The active ingred concentrations)	ients statement is consistent w	(chemical ide	entities, yes [x]	nominal no []
17.	10% or more of 1% or more of a sodium nitrite	a petroleum dia methyl alcohol: at any level: inert at any le	stillate: y y y evel: y	es [ ] : es [ ] : es [ ] :	no [x] no [x] no [x] no [x] no []
18.	If yes to any statement contain				redients
	yes [ ]	no [x]	not	applicab	le [ ]

19.	The	appropriate	physical	and	chemi	ical	hazards	st	ater	nent
	rega	rding flamma	bility or	expl	osive	char	acteristi	.CS	of	the
	prod	luct are giver	on the l	abel:						

yes [ ]	no [ ]	not	applicable	[x]

20. The storage and disposal instructions for the pesticide and container are in compliance with PR Notice 84-1 for household use products or PR Notice 83-3 for all other uses:

yes	[x]	no	[	]
-----	-----	----	---	---

# PRODUCT CHEMISTRY DATA (GROUP A)

21. <u>Chemical IDs/Manufacture/</u> <u>Analytical Information</u>	<u>Data</u> <u>Required</u> <u>Fulfilled</u>	MRID No.
830-1550 Chemical Identity	Y	csf 29 Dec 1999
830-1600 Description of Materials	N	

Used to Produce the Product		
830-1620 Description of Production Process	N	
830-1650 Description of Formulation Process	NA	
830-1670 Discussion of Impurities	Y	450268-01
830-1700 Preliminary Analysis	N	
830-1750 Certified Limits	Y	csf 29 Dec 1999
830-1800 Enforcement Analytical Method	Y	450268-01

# PRODUCT CHEMISTRY DATA (GROUP B)

24. <u>Physical/Chemical</u> <u>Properties</u>	Data Required Fulfilled	Value or Qualitative Description	MRID No.
830-6302 Color	N		
830-6303 Physical State	Y	crystalline solid	450268-02
830-6304 Odor	N		

830-6314 Oxidation/Reduction:Chemical Incompatability	Y	test substance is not an oxidizing or reducing agent	450268-02
830-6315 Flammability/Flame Extension	NA		
830-6316 Explodability	NA		
830-6317 Storage Stability of Product	I	12 month study in progress	
830-6319 Miscibility	NA		
830-6320 Corrosion Characteristics	I	study in progress	
830-6321 Dielectric Breakdown Constant	NA		
830-7000 pH	Y	4.65 @ 25°C	450268-02
830-7100 Viscosity	NA		
830-7300 Density	Y	1.42 g/ml @ 24°C	450268-02
		-	

**Explanations:** Y = The Requirements Were Fulfilled; N = The Requirements Were Not Fulfilled; NA = Not Applicable; G = Data Gap; U = Requires Upgrading; I = Incomplete or In Progress; W = Waived.

#### CONFIDENTIAL APPENDIX

## Note to the PM:

The CSF for EPA Reg. No. 35896-20, Copper Sulfate Pentahydrate, needs to be revised because the nominal concentration is the same as the lower certified limit. PR-Notice 91-2 discontinued the practice of listing the lower certified limit as the nominal

concentration.