4-10-95

MEMORANDUM:

Subject: EPA File Symbol/EPA Reg. No.: 1812-288
Kocide 101, Wettable Powder

From: Lucy D. Markarian, Biologist
Precautionary Review Section
Registration Support Branch
Registration Division (7505W)

4/10/95

To: Cynthia Giles-Parker/ James Stone, PM 22
Fungicide-Herbicide Branch
Registration Division (7505C)

Applicant: Griffin Corporation
P.O. Box 1847
Rocky Ford Road
Valdosta, GA 31603-1847

FORMULATION FROM LABEL:

Active Ingredient(s):	% by wt.
Cupric hydroxide	77.0 %
Inert Ingredient(s):	23.0 %
Total:	100.0 %

BACKGROUND

The Griffin Corporation has submitted a new acute dermal study in support of a change in the precautionary statement and the statement of practical treatment of the product Kocide 101 under EPA 1812-288. The current statement of practical treatment under "If on skin" section includes the statement "get medical attention". The registrant would like this to read" Get medical attention if irritation persists".

RECOMMENDATION

The submitted test is acceptable for making the requested change in the labelling language.The current submission places the acute dermal toxicity in category IV. The label need not include any precautionary statements for dermal absorption potential. According to the registration standard for group II Copper Compounds, the dermal irritation potential of this product should be in category IV toxicity also. Therefore, neither the precautionary statement nor the statement of practical treatment need to include statements about either dermal absorption or dermal irritation potential of the product.

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DATA REVIEW FOR ACUTE DERMAL TOXICITY TESTING (§81-2)

Product Manager:22 **Reviewer:** L. Markarian
MRID No.: 430881-01 **Report Date:**12/21/1993
Testing Laboratory: Product Safety Labs. **Report No.:**T-2498
Author(s): Ralph Shapiro
Species: Rabbit, New Zealand White
Weight:2.0 - 2.5 kg
Age: young adult
Source: Davidson Mill Farm, South Brunswick, NJ
Test Material: Kocide 101, Lot 0138687260
light blue powder
Quality Assurance (40 CFR §160.12): Included, acceptable

Summary:

1. **The estimated LD_{50} is** > 5000 mg/kg

3. **Tox. Category:** IV **Classification:**Acceptable

Procedure (Deviation From §81-2):

Test material was moistened with 1:1 (g/ml) of distilled water and applied to the clipped dorsum of the animals on a 6 X 9 inch area. The sites were covered with two 2 7/8 X 4 inch adhesive backed patches, and the trunks were wrapped in 3 inch Durapore tape. Collars were placed around the necks. At 24 hrs the collars and the wrappings were removed and the sites were wiped clean of any residue. Observations were at 1, 2.5, 19 and 24 hrs after applications and daily thereafter. Body weights were recorded at initiation and on days 7 and 14. Necropsy was performed on all animals. Sodium pentothal euthanasia was used.

Results:

Reported Mortality

DOSAGE	(NUMBER KILLED/NUMBER TESTED)		
	Males	Females	Combined
5000 mg/kg	0/5	0/5	0/10

Symptoms & Gross Necropsy Findings:

There was no mortality or signs of systemic toxicity. Dermal toxicity was expressed ad erythema and edema and recorded on days 2 and 3. Necropsy revealed no gross pathology.

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Tox Chem No:023401 Cupric hydroxide **Current Date:**4/10/95

Laboratory: Product Safety Labs.,725 Cranbury Road, East Brunswick,NJ 08816

S T U D Y	M A T E R I A L	MRID NO	R E S U L T S	TOX CAT	CORE GRADE
Acute Dermal Limit test(Rabbits) T-2498 12/21/93	Kocide 101 Lot 0138687160 Blue powder	430881-01	LD_{50} > 5000 mg/kg	IV	Acceptable