

AUG 19 1987

Mr. Robert Renes  
Marnan U.S.A., Inc.  
P.O. Box 22829  
Tampa, FL 33622

Dear Mr. Renes:

Subject: Amendment - Formula Change; Revised Labeling;  
Product Chemistry; Change in Signal Word  
Colloidox  
EPA Registration No. 48273-2  
Your Submission Dated July 23, 1987

Your 90-day response to the Copper II Registration Standard, providing a Formulator's Exemption Statement, is acceptable. The revised formula (and alternate) have been included in our files. It is understood that the formulas dated July 23, 1987 replace previously accepted formulas for this product. Product chemistry information provided under the Data Call-In Program is satisfactory. Please provide results from the storage stability study as soon as they are available. The Notice of Intent to Suspend dated June 22, 1987 is no longer in effect for this product.

Proposed revisions to labeling, changing the signal word to "WARNING," and adding crops under the Selective Method, are acceptable provided you:

1. Submit/cite all data required for registration/reregistration of your product under section 3(c)(5) of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) when the Agency requires all registrants of similar products to submit such data.
2. Make the labeling change below before you release the product for shipment bearing the amended labeling:

- Modify Container Disposal language to read:

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

15629:Mountfort:MF-03:KENCO:8/17/87:8/26/87:CRIS:VO:SJH:EK:CRIS:LISA:CRIS:EK:aw

CONCURRENCES

SYMBOL	ORIGINATOR						
SURNAME							
DATE							

3. Submit one (1) copy of your final printed labeling before you release the product for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions.

A stamped copy of the labeling is enclosed for your records.

We are accepting the change in formulation from 20% copper (35% copper oxychloride) to 18% copper as minor amendment under §152.81(b)(4)(i).

Sincerely yours,

*JMS*  
Richard P. Mountfort  
Product Manager (23)  
Fungicide-Herbicide Branch  
Registration Division (TS-767C)

Enclosure

COLLOIDOX

ACTIVE INGREDIENT:	
Copper* (Expressed as Metallic) .....	18.43%
INERT INGREDIENTS .....	81.57%
TOTAL .....	100.00%

*31.80% copper hydroxide*

\*Copper Source is Copper Oxychloride

KEEP OUT OF REACH OF CHILDREN

WARNING AVISO ✓ *(Change in Signal word)*

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente. ✓

STATEMENT OF PRACTICAL TREATMENT ✓

IF SWALLOWED: Call a physician or Poison Control Center. Drink one or two glasses of water and induce vomiting by touching back of throat with a finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

IF ON SKIN: Remove contaminated clothes and shoes and immediately wash skin with soap and plenty of water. If irritation develops, see a physician.

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

See Side Panels For Additional Precautionary Statements

EPA Reg. No. 48273-2

EPA Est. No. 51036-GA-1

Manufactured For  
MARMAN USA, INC.  
TAMPA, FLORIDA 33622

NET CONTENTS: \_\_\_\_\_

**ACCEPTED**  
*With Comments*  
AUG 19 1987

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the registered under  
EPA Reg. No. 48273-2

Updated July 1987

PRECAUTIONARY STATEMENTS  
Hazards To Humans And Domestic Animals ✓

WARNING! Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Harmful if swallowed or inhaled. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse. "

ENVIRONMENTAL HAZARDS ✓

This pesticide is toxic to fish and aquatic organisms. Do not apply directly to water. Drift and runoff from treated areas may be hazardous to fish and aquatic organisms in adjacent aquatic sites. Do not allow rinsate from cleaning of equipment or disposed material to enter surface or ground water.

RE-ENTRY ✓

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

Do not enter treated areas without protective clothing until sprays have dried.

Protective clothing means, at least, a hat or other suitable head covering, a long sleeved shirt and long legged trousers or a coverall type garment (all of closely woven fabric covering the body, including the arms and legs), shoes and socks.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be understood by workers. Written warnings must include the following information. WARNING! Area treated with Copper on (date of application). Do not enter without appropriate protective clothing until sprays have dried. See State of Practical Treatment and Precautionary Statements for actions to be taken in case of accidental exposure.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

Note: Peanuts and Watermelons were the only crops listed on previously accepted labeling.

MIXING DIRECTIONS AND RECOMMENDATIONS

Fill the spray tank approximately 1/2 full of water and with agitator running add the required amount of Colloidox. Add water to fill the spray tank 3/4 full and when a spreader sticker is recommended, add the recommended amounts. Fill the spray tank and keep agitator running until spraying is completed. Use higher rates for heavy infestations, lower rates for mild infestations.

FRUITS

CITRUS (Grapefruit, Lemons, Limes, Oranges, Tangerines, Tangeloes): For Melanose, Scab, Greasy Spot - Use 1/3 to 3/4 gallons per 100 gallons water by dilute spray. With aerial or concentrate sprayers apply 2 1/2 to 6 1/2 gallons per acre diluted to the proper concentration with water as recommended for the specific type sprayer used. Do not use less than 10 gallons of spray per acre. For Scab control make two applications, one just before trees begin to flush and repeat at 2/3 petal fall. For Melanose control apply 1 to 3 weeks after petal fall. Repeat 4 weeks later if necessary. For Greasy Spot make a summer spray about July 15. Sulfur may be included in sprays in Melanose and Scab. CAUTION: Do not apply in areas where copper injury is known to occur.

PEACHES: Leaf Curl - Dilute spray - Use 1 to 1 1/3 gallon per 100 gallons water. Concentrate spray - Use 3 to 4 1/2 gallons per acre in 25 to 50 gallons water per acre. As a dormant spray for Leaf Curl apply November 15 to December 15 before fall rains begin. NOTE: To control Leaf Curl application must be made before the foliage buds swell. Consult your State Agricultural Experiment Station. California only: For Leaf Curl control - 4 to 5 gallons in 20 gallons water may be applied by aircraft to one acre during the dormant season.

VEGETABLE CROPS

MIXING INSTRUCTIONS: Mix recommended amount of Colloidox given for one acre in sufficient water for good coverage. With dilute ground sprayer, generally apply 100 to 150 gallons spray per acre. With concentrate sprayer generally apply 20 to 50 gallons spray per acre. With aerial sprayers generally apply 5 to 10 gallons spray per acre, but do not apply less than 5 gallons spray mixture per acre. Consult the manufacturer for recommended water volumes per acre for a given sprayer. Use higher rates for heavy infestations, low rates for mild infestations.

SUGAR BEETS: Cercospora Leaf Spot - Use 1 gallon per acre. Begin when disease first appears and repeat at 7 to 10 day intervals.

CELERY: Early Blight (Cercospora) and Late Blight (Septoria): Use 3/4 to 1 gallon per acre. Treat every 7 days after emergence.

CUCUMBERS, MELONS: Angular Leaf Spot, Anthracnose, Downy Mildew, Scab - Use 1/3 to 1/2 gallon per acre. Begin treatment when plants begin to vine and repeat every 7 to 10 days. Since the disease is likely to be more serious in high plant populations (40,000 or more plants per acre) spray every 3 to 4 days to protect fruit at all stages of development.

POTATOES: Early and Late Blight - Use 3/4 to 1 1/2 gallon per acre. Begin when plants emerge and repeat at 7 to 10 day intervals.

CONDITIONS OF SALE.

All statements concerning the use of this product apply only when used as directed. THE MANUFACTURER MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THIS PRODUCT OR ITS USE, WHICH EXTEND BEYOND THE DESCRIPTION ON THE LABEL. Read all directions carefully.