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U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 Mth St., S.W.
Washington, D.C. 20460

EPA Reg. Number:
59657-2

Date of Issuance:

NOTICE OF PESTICIDE:
 Registration
 X Reregistration

Term of Issuance:
Unconditional

Name of Pesticide Product:
Color Ripe

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Permviro Systems, Inc.
3520 Trotter Drive
Alpharetta, GA 30201

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

Based on your response to the Reregistration Eligibility Document(s), EPA has reregistered the product listed above. Enclosed is a copy of your label stamped "Accepted." This action is taken under the authority of section 4(g)(2)(C) of the Federal Insecticide, Fungicide, and Rodenticide Act, as amended. Reregistration under this section does not eliminate the need for continual reassessment of pesticides. EPA may require submission of data at any time to maintain the registration of your product.

BEST AVAILABLE COPY

Signature of Approving Official:

BS

Date:

FEB 27 1984

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(and Domestic Animals)**

DANGER

Avoid breathing gas. Inhalation may cause rapid suffocation due to oxygen deficiency. Liquified or pressurized gas can cause frost burns. Do not get in eyes or on skin. Wear long-sleeved shirt, long pants, boots, goggles and chemical-resistant gloves while handling cylinders or any application equipment under pressure. Harmful if inhaled. Avoid breathing vapors. Do not enter unventilated treatment areas unless wearing a respirator approved by NIOSH/MSHA for this use.

**PHYSICAL OR CHEMICAL HAZARDS
EXTREMELY FLAMMABLE
COMPRESSED GAS**

Extremely flammable. Contents under pressure. Keep away from fire, sparks and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Gas will explode if ignited when mixed with air between 2.7% to 36% by volume.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

STORAGE - Keep cylinder out of direct sunlight and away from heat. Close valve when not in use. If container is damaged and leaking, move to shaded area outside of building.

PESTICIDE DISPOSAL - Do not contaminate water, food or feed by storage or disposal. Excess gas that cannot be held in proper storage for later use should be returned to supplier.

CONTAINER DISPOSAL - Return empty cylinder for reuse.

CYLINDER RETURN AND REFILLING

Close the cylinder valve tightly when cylinder is empty. Do not dispose of cylinder in any manner.

Cylinders must be returned to the point of purchase for credit. All cylinders, valves and caps remain the property of the manufacturer. Federal regulations prohibit the refilling of cylinders without written consent of the manufacturer.

PRODUCT INFORMATION

COLOR RIPE® contains ethylene, a ripening stimulant for tobacco. Ethylene stimulates enzymatic changes in the raw product, accelerating the conversion of starches to sugar and the degradation of chlorophyll. These changes allow the normal ripening and degreening processes to proceed at an accelerated rate. COLOR RIPE® is used by the tobacco industry to control the curing process of the product for market for high quality and good appearance.

©1988 Permviro Systems, Inc., Alpharetta, GA 30201

COLOR RIPE®

**DEGREENING AND RIPENING
TOBACCO CURING AGENT**

For use in accelerating the ripening of flue-cured tobacco.

ACTIVE INGREDIENTS*

ETHYLENE 99.9% w/w
INERT INGREDIENTS (Related Compounds) 0.1% w/w
TOTAL 100.0% w/w

(This product contains 13.8 L²/lb. of ETHYLENE AT 70°F & 1 atm)

KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENTS OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician.
IF ON SKIN: Flush with plenty of soap and water. Get medical attention.
IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Manufactured by:

PERMVIRO SYSTEMS, INC.
TROTTER'S CREEK
INDUSTRIAL PARK
3520 TROTTER DRIVE
ALPHARETTA, GA 30201

EPA Establishment No. 59657-GA-01

EPA Registration No. 59857-2

Net Contents: 10 lbs.
38 lbs.

WARRANTY AND LIMITATION OF DAMAGES

PERMVIRO SYSTEMS, INC. warrants that this material conforms to the chemical description and guaranteed limits of active ingredients as stated on this label.

PERMVIRO SYSTEMS, INC. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY of any kind.

PERMVIRO SYSTEMS, INC.'s maximum liability for breach of this warranty shall not exceed the purchase price of this product.

Unless State law provides otherwise, in no event shall PERMVIRO SYSTEMS be liable for indirect or consequential damages when this product is used or handled contrary to label instructions. This warranty shall not be changed by oral or written agreement unless signed by a duly authorized officer of PERMVIRO SYSTEMS, INC.

Buyer assumes all risks of use or handling of this material when such use or handling is contrary to label instructions.

APPLICATION

COLOR RIPE® ethylene can be used on tobacco at the application rates and below:

CROP TREATED	USE	ETHYLENE RATE
Tobacco Wet-Season Green Dry-Season Green	Degreening/ Curing	Up to 13.8 L ² /lb.

METHOD OF APPLICATION

COLOR RIPE® ethylene must be applied through a regulator supplied by PERMVIRO SYSTEMS, INC. or an equivalent regulator with a maximum flow rate of more than one (1) pound (13.8 L²/lb.) per hour.

COLOR RIPE® ethylene is designed for use on curing barns. Amounts in excess of the application rate will not hasten the ripening process in certain instances. Amounts as low as 10 ppm are required for degreening/ripening. Do not exceed the explosive limits. Using an excessive amount can create an explosion hazard.

The use of 1 cubic foot of COLOR RIPE® ethylene per cubic foot of air space is equivalent to 10 ppm. One pound of COLOR RIPE® ethylene. A perfectly sealed ripening room would require 7 hours to reach application rate.

COLOR RIPE® ethylene is noncorrosive. Containers are not required to be tested to pressurized ethylene gas standing a working pressure of 2,000 psi.

Cylinders must be firmly secured to prevent discharge. The cylinder valve consists of a left-handed thread. The regulator is used for dispensing the ethylene gas. Use the cylinder should be weighed to determine the exact amount applied.

Use COLOR RIPE® only on mature tobacco immediately following filling. Necessary furnace heat is desired and start fan to provide air movement to initiate the flow of ethylene. The most effective is apply prior to start of curing.

In cases where tobacco is harvested under conditions it may be desirable to ripen leaf surface prior to starting the curing process.

*COLOR RIPE is a registered trademark.

Method of use protected by one or more U.S. Patents Nos. 4,888,882 and 5,185,428.

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
(and Domestic Animals)
DANGER**

Avoid breathing gas. Inhalation may cause rapid suffocation due to oxygen deficiency. Liquid or pressurized gas can cause frost burns. Do not get in eyes or on skin. Wear long-sleeved shirt, long pants, boots, goggles and chemical-resistant gloves while handling cylinders or any application equipment under pressure. Harmful if inhaled. Avoid breathing vapors. Do not enter unventilated treatment areas unless wearing a respirator approved by NIOSH/MSHA for the use.

**PHYSICAL OR CHEMICAL HAZARD
EXTREMELY FLAMMABLE
COMPRESSED GAS**

Extremely flammable. Container under pressure. Keep away from fire, sparks and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting. Gas will explode if ignited when mixed with air between 2.7% to 36% by volume.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

STORAGE AND DISPOSAL

STORAGE - Keep cylinder out of direct sunlight and away from heat. Close valve when not in use. If container is damaged and leaking, move to shaded area outside of building.

PESTICIDE DISPOSAL - Do not contaminate water, food or feed by storage or disposal. Excess gas that cannot be held in proper storage for later use should be returned to supplier.

CONTAINER DISPOSAL - Return empty cylinder for reuse.

CYLINDER RETURN AND REFILLING

Close the cylinder valve tightly when cylinder is empty. Do not dispose of cylinder in any manner.

Cylinders must be returned to the point of purchase for credit. All cylinders, valves and caps remain the property of the manufacturer. Federal regulations prohibit the refilling of cylinders without written consent of the manufacturer.

PRODUCT INFORMATION

COLOR RIFE - contains ethylene, a ripening agent for fruits and vegetables. Ethylene accelerates ethylene changes in the new product. Delaying the conversion of ethylene to acetylene and the degradation of chlorophyll. These changes retard the normal ripening and degreening processes to produce an accelerated rate. COLOR RIFE is used by the food industry to control the maturation of the product for market for high quality and good appearance of the product.

©1988 Permatro Systems, Inc., Atlanta, GA 30301

**COLOR RIFE®
DEGREENING AND RIPENING
AGENT**

For use in accelerating the ripening of fruits, melons, tomatoes and avocados.

ACTIVE INGREDIENTS*
ETHYLENE 99.9% w/w
INERT INGREDIENTS (Related Compounds) ... 0.1% w/w
TOTAL 100.0% w/w

(This product contains 13.8 g./lb. of ETHYLENE at 70°F & 1 atm)

**KEEP OUT OF REACH OF CHILDREN
DANGER**

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush with plenty of water. Call a physician.
IF ON SKIN: Flush with plenty of soap and water. Get medical attention.
IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

Manufactured by:

**PERMIVIRO SYSTEMS, INC.
TROTTERS CREEK
INDUSTRIAL PARK
3630 TROTTER DRIVE
ALPHARETTA, GA 30201**

EPA Establishment No. 59057-QA-01
EPA Registration No. 59057-2

Net Contents: 10 lbs.
36 lbs.

WARRANTY AND LIMITATION OF DAMAGES

PERMIVIRO SYSTEMS, INC. warrants that the material conforms to the chemical description and guaranteed limits of active ingredients as stated on this label.

PERMIVIRO SYSTEMS, INC. makes no other express or implied warranty, including any other express or implied warranty of FITNESS or MERCHANTABILITY at any time.

PERMIVIRO SYSTEMS, INC.'s maximum liability for breach of this warranty shall not exceed the purchase price of this product. Unless stated otherwise, in no event shall **PERMIVIRO SYSTEMS** be liable for indirect or consequential damages when this product is used or handled contrary to label instructions. This warranty shall not be derogatory either written or oral. This warranty is a duty assigned to **PERMIVIRO SYSTEMS, INC.** Buyer assumes all risk of use or handling of this material when such use or handling is contrary to label instructions.

APPLICATION RATES AND CROPS

COLOR RIFE® ethylene can be used to degreen and ripen fruits and vegetables at the application rates and under the conditions shown below:

CROP TREATED	USE	ETHYLENE PPM	TEMP °F	TREATMENT TIME
Apples	Depreening/Ripening	150-1000	65-75	2-4 days
Avocados	Depreening/Ripening	150-1000	70-80	2-4 days
Bananas	Depreening/Ripening	150-1000	70-80	2-4 days
Cherries	Depreening/Ripening	150-1000	70-80	2-4 days
Citrus	Depreening/Ripening	150-1000	70-80	2-4 days
Guavas	Depreening/Ripening	150-1000	70-80	2-4 days
Lychees	Depreening/Ripening	150-1000	70-80	2-4 days
Melons	Depreening/Ripening	150-1000	70-80	2-4 days
Oranges	Depreening/Ripening	150-1000	70-80	2-4 days
Pears	Depreening/Ripening	150-1000	70-80	2-4 days
Plums	Depreening/Ripening	150-1000	70-80	2-4 days
Tomatoes	Depreening/Ripening	150-1000	70-80	2-4 days
Watermelons	Depreening/Ripening	150-1000	70-80	2-4 days

METHOD OF APPLICATION

COLOR RIFE® ethylene must be dispensed through a critical orifice regulator supplied by PERMIVIRO SYSTEMS, INC., or an equivalent regulator with a maximum application rate of no more than one (1) pound (13.8 cubic feet) of ethylene in 24 hours.

COLOR RIFE® ethylene is designed to be used in sealed degreening/ripening rooms. Amounts in excess of the upper recommended rates will not hasten the ripening process and may discolor the treated product. Amounts as low as 2 ppm may initiate the ripening process in certain instances. The air concentrations required for degreening/ripening are well below flammable or explosive limits. Using an excess amount of ethylene may create an explosion hazard.

The use of 1 cubic foot of COLOR RIFE® ethylene per 1,000 cubic feet of air space is equivalent to a concentration of 1,000 ppm. One pound of COLOR RIFE® contains 13.8 cubic feet of ethylene. A perfectly sealed ripening room of 4,000 cubic feet would require 7 hours to reach 1,000 ppm at the maximum application rate.

COLOR RIFE® ethylene is noncorrosive and special materials of construction are not required. Fitting and connections exposed to pressurized ethylene gas should be capable of withstanding a working pressure of 2,000 pounds per square inch.

Cylinders must be firmly secured in an upright position during discharge. The cylinder valve connection on COLOR RIFE® has a left-handed thread. The regulator provided is especially made for dispensing the ethylene gas. Use approved regulators only. The cylinder should be weighed before and after, depending to determine the exact amount applied.

Ventilate degreening/ripening rooms well before each application of COLOR RIFE®. Rooms should be aired a minimum of two to a day during treatment to prevent oxygen depletion and excess CO₂ buildup. Oxygen depletion may retard the degreening/ripening process. Relative humidity should be maintained above 80%. Temperatures below 60-65°F and above 80°F should be avoided.

*COLOR RIFE is a registered trademark of Permatro Systems, Inc.

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**ACCEPTED
with COMMENTS
in RPA Letter Dated:**

FEB 22 1991

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