

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

Avoid breathing gas. Inhalation may cause rapid suffocation due to oxygen deficiency. If person is unconscious, move to fresh air and call a physician. If person is not breathing, give mouth-to-mouth artificial respiration. Liquefied or pressurized gas can cause frost burns. Do not get in eyes or on skin. Wear protective clothing, rubber gloves, and goggles 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.

**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 — General Classification
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 natural ripening stimulant for tobacco. Ethylene stimulates natural enzymatic changes in the raw product, catalyzing 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.

COLOR RIPE®

**NATURAL DEGREENING AND RIPENING
TOBACCO CURING AGENT**

For use in accelerating the natural 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 ft.³/lb. of ETHYLENE AT 70°F & 1 atm)

KEEP OUT OF REACH OF CHILDREN

**DANGER
COMPRESSED GAS**

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.

Manufactured by:

PERMVIRO SYSTEMS, INC.
3295 RIVER EXCHANGE DR.
SUITE 250
NORCROSS, GA 30092

EPA Establishment No. 59657-NC-01
EPA Registration No. 59657-2

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. The warranty shall not be changed by oral or written agreement unless signed by a duly authorized officer of PERMVIRO SYSTEMS, INC.

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

APPLICATION RATES

COLOR RIPE® ethylene can be used to degreen and ripen tobacco at the application rates and under the conditions shown below:

CROP TREATED	USE	ETHYLENE PPM	TEMP °F	TREATMENT TIME
Tobacco Wet Season Green Dry Season Green	Degreening/ Curing	Up to 300	70	APX. 24 HRS. 12-24 HRS. 24-48 HRS.

METHOD OF APPLICATION

COLOR RIPE® ethylene must be dispensed through a critical orifice regulator supplied by PERMVIRO 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 RIPE® ethylene is designed to be used in tobacco curing barns. 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 RIPE® ethylene per 1,000 cubic feet of air space is equivalent to a concentration of 1,000 ppm. One pound of COLOR RIPE® 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 RIPE® ethylene is noncorrosive and special materials of construction are not required. Piping 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 RIPE® 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 dispensing to determine the exact amount applied.

Use COLOR RIPE® only on mature tobacco. Use in curing barns immediately following filling. Close all vents and doors. Maintain temperature, if possible, around 70°F.

*COLOR RIPE is a registered trademark of Permviro Systems, Inc.

ACCEPTED
with COMMENTS
in EPA Letter Dated:

APR 11 1981

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

59657-2

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