

COLOR RIPE
NATURAL DEGREENING AND RIPENING
AGENT

For use in accelerating the natural ripening of fruits, melons, tomatoes, avocados, walnuts and 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 ft³/lb of ETHYLENE at 70°F & 1atm)

KEEP OUT OF REACH OF CHILDREN

DANGER
COMPRESSED GAS

STATEMENT OF PRACTICAL TREATMENT

IF INHALED - Move to fresh air. If the person is not breathing, give mouth-to-mouth artificial respiration. Call a physician.

Manufactured by:

PERMVIRO SYSTEMS, INC.
6736 EDGEWORTH DRIVE
ORLANDO, FLORIDA 32819

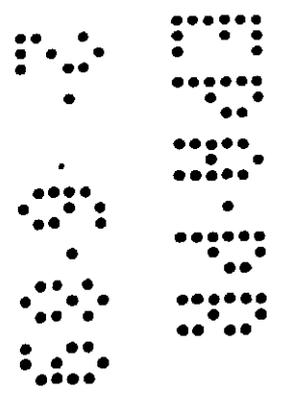
ACCEPTED

MAR 10 1989

Under the Fungicide, Insecticide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 59657-2

EPA Establishment No. 38719-NC-01
EPA Registration No. To Be Assigned

NET CONTENTS: _____



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

CAUTION

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.

PHYSICAL OR CHEMICAL HAZARD

**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

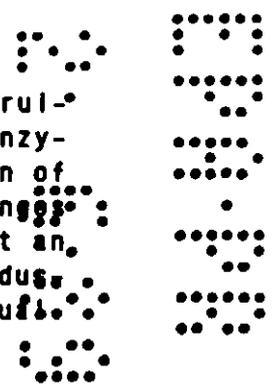
STORAGE - Keep cylinder out of direct sunlight and away from heat. Close valve when not in use. If container is damaged and leaking, move to shaded area outside of buildings.

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.

PRODUCT INFORMATION

COLOR RIPE contains ethylene, a natural ripening stimulant for fruits, vegetables, nuts and 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 food and tobacco industry to control the maturation of products for market for high quality and good appearance at the proper time.



APPLICATION RATES AND CROPS

COLOR RIPE ethylene can be used to degreen and ripen the fruits, vegetables, ~~tobacco and nuts~~ at the application rates and under the conditions shown below:

CROP TREATED	USE	ETHYLENE PPM	TEMP. OF	TREATMENT TIME
Banana	Degreening/Ripening	150-1000	65-75	3-4 days
Citrus	Degreening	150-1000	70-90	2-5 days
Grapefruit				
Orange				
Lemon				
Tangerine			70	
Honeydew Melon		150-1000	65	3-4 days
Pear	Degreening/Ripening	150-1000	65	4-8 days
Bartlett Bosc				
Persimmon	Degreening/Ripening	150-1000	65	2 days
Pineapple	Degreening	150-1000	65	3-4 days
Tomatoes	Degreening/Ripening	200	65	6 days
Mangos	Degreening	150-1000	70	2 days
Avocados	Degreening/Ripening	150-1000	70	4-6 days
Tobacco	Degreening/Curing	Up to 300	70	24 hrs

METHOD OF APPLICATION

COLOR RIPE ethylene must be dispensed through a critical orifice regulator supplied by PERMIRO 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 sealed degreening/ripening rooms and 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 4 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. Ground the cylinder and all metal piping to avoid static sparks. Do not use around open flame heaters, exposed element electrical heaters or spark producing electrical equipment such as motors and switches. Use explosion proof equipment.

The cylinder valve connection on **COLOR RIPE** has a left-handed thread. The regulator provided is especially made for dispensing the ethylene gas. Do not substitute regulators. The cylinder should be weighed before and after dispensing to determine the exact amount applied.

Fruits and Vegetables

Ventilate degreening/ripening rooms well before each application of **COLOR RIPE**. Rooms should be aired a minimum of twice 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 90°F should be avoided.

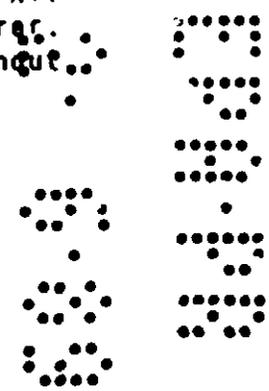
Tobacco

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°C. Do not use on tobacco treated prior to harvest with ripening agents.

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.



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. In no event shall PERMVIRO SYSTEMS, INC. be liable for indirect or consequential damages. 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 risk of use or handling, whether in accordance with directions or not.

