

ym 25 47893-2 PM 1-12
UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

JAN 15 1992

Gary C. Adler
O'Connor & Hannan
1919 Pennsylvania Avenue, N.W., Suite 800
Washington, D.C. 20006-3483

Dear Mr. Adler:

Subject: Livingston's Tobacco Curing Gas
EPA Registration No. 47893-2
Revised Labeling
Your Letter Dated 10/17/91

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable. A stamped copy is enclosed for your records.

Sincerely Yours,

Cynthia Giles-Parker
Cynthia Giles-Parker
Product Manager (22)
Fungicide-Herbicide Branch
Registration Division (H7505C)

Enclosure

BEST AVAILABLE COPY

CONCURRENCES							
SYMBOL	H75050						
SURNAME	C. Adler						
DATE	1/13/92						

EPA Form 1320-1 (12-79) #9. S. GPO: 1989-624-485/10186 OFFICIAL FILE COPY

ACCEPTED

Jan. 6 1992

Under the Fungicide, Insecticide, and Plant Growth Regulator Act, as amended, registered EPA Reg. No. 47893-2

APPLICATION

LIVINGSTON'S TOBACCO CURING GAS™ is designed for application to the curing barn with the specially designed applicators kit which is calibrated to maintain 10 to 300 PPM's of ethylene applying 1 lb. per 24 hours. The concentration will vary according to the tightness of the barn.

The applicators kit contains an ample length of rubber tubing (six feet) to connect the cylinder with the barn. The barn end of the tubing should be placed in the air flow on the discharge side of the fan with the open end of the tube pointed in the direction of the air flow. The discharge end of the tube must be open for the gas to enter the barn. Always check tubing for dirt and any obstructions prior to operating the applicators kit. Remove cylinder from the barn when the application is complete. The applicators kit is locked to prevent tampering with the calibration. DO NOT ATTEMPT TO CALIBRATE THIS UNIT.

IMPORTANT NOTICE

This container is to be returned to LIVINGSTON CHEMICALS, INC. or their designated agent, dealer, or distributor when emptied for filling. Unauthorized filling of this container is prohibited.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER

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. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. Exposure to temperatures above 130 degrees Fahrenheit may cause bursting.

GENERAL INFORMATION

LIVINGSTON'S TOBACCO CURING GAS™ (ethylene) when used in accordance with the label will reduce curing time of flue-cured tobacco.

This product should only be used on mature tobacco. When used according to directions, LIVINGSTON'S TOBACCO CURING GAS™ is the same natural plant ripening hormone contained in the tobacco. The use of this product provides the tobacco with a constant exposure until the tobacco is properly conditioned for coloring and curing.

©1992 Livingston Chemicals, Inc., Virginia Beach, VA 23455 U.S. Patent No. 4,836,222

LIVINGSTON'S TOBACCO CURING GAS™ THE NATURAL COLORING/CURING AGENT

For use in tobacco curing barns to accelerate the curing of flue-cured tobacco.

Table with 2 columns: Ingredient and Percentage. ACTIVE INGREDIENTS: ETHYLENE 99.5%. INERT INGREDIENTS 0.5%. TOTAL 100%.

FLAMMABLE

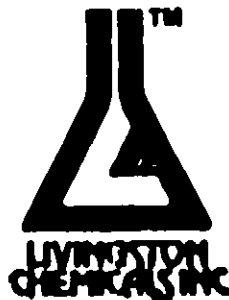
Keep Away From Heat and Flame KEEP OUT OF REACH OF CHILDREN

DANGER

STATEMENTS OF PRACTICAL TREATMENT

In or on eyes: Flush with plenty of water. Call a physician. In or on skin: Flush with plenty of soap and water. Get medical attention. In or on clothes: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

SEE SIDE PANEL FOR ADDITIONAL INFORMATION



SERVING AGRICULTURE & INDUSTRY

P.O. BOX 5789 Virginia Beach, Virginia 23455 Phone (804) 460-3115

EPA Reg. No. 47893-2 NET CONTENTS

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 - Store cylinder and applicators not in use, away from the weather. DO NOT EXPOSE TO HEAT OR FLAME.

PESTICIDE DISPOSAL - Do not contaminate water, food, or feed by storage or disposal. Excess gas that cannot be used for storage for later use should be returned to the manufacturer.

CONTAINER DISPOSAL - Return empty container to the manufacturer.

CONTENTS UNDER PRESSURE - DO NOT REMOVE SAFETY CAP FROM CYLINDER WITHOUT SAFETY CAP SECURED.

TOBACCO (FLUE-CURED)

Use immediately after filling barn. Using LIVINGSTON'S TOBACCO CURING GAS™ at concentrations of 10-300 PPM ethylene in 10 to 4,000 cubic feet with forced recirculation will result in an exchange of approximately 50 to 100 times the volume of air.

During the exposure time, vents and doors should be closed.

Start furnace heat at approximately 50 degrees Fahrenheit. Temperature Apply LIVINGSTON'S TOBACCO CURING GAS™ at the beginning of the normal coloring process. Bulk heat inside the curing barn to the range of 100°F-105°F. Bring the Wet Bulb Globe Temperature (WBGT) to the range of 100°F-105°F. Maintain this WBGT through the coloring process. When the WBGT reaches the range of 100°F-105°F, advance the Dry Bulb Globe Temperature (DBGT) to 3°F per hour.

Continue to apply LIVINGSTON'S TOBACCO CURING GAS™ until all green pigment has left the leaf with wilting and drying of the leaf and stems.

The normal concentrations reached inside the curing barn are 25 to 150 PPM. LIVINGSTON'S TOBACCO CURING GAS™ is flammable only in concentrations of 31 PPM or higher.

Do not use on tobacco treated prior to this application. Use of this product in enclosed spaces less than 100 cubic feet is prohibited.

WARRANTY

Seller makes no warranty, expressed or implied, of this product other than indicated on the label. Buyer assumes all risk of use and/or handling. Such use and/or handling is contrary to the label instructions.

BEST AVAILABLE