

47893-3

Center panel

03/22/2005

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LIVINGSTON'S
NATURE-RIPE™
ETHYLENE

Used in ripening rooms to accelerate the ripening of Avocados, Banana, Citrus Fruits (Grapefruit, Lemon, Orange, Tangerines), Mangoes, Melons, Honeydew Melons, Papayas, Peach, Pome Fruit (Pear), Persimmon, Pineapple, Tomato, Walnut (English/Black) and other Fruiting Vegetables. Also used as a high volume spray (dilute) in pressure sprayers to promote flowering of pineapple.

ACTIVE INGREDIENT:

Ethylene:-----	99.9%
Other Ingredients-----	00.1%
TOTAL:-----	100.0%

KEEP OUT OF REACH OF CHILDREN

FLAMMABLE GAS

KEEP AWAY FROM HEAT and FLAME

DANGER (PELIGRO)

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.
(If you do not understand this label, find someone to explain it to you in detail.)

FIRST AID

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.
IF ON SKIN:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
IF INHALED:	Move person to fresh air. If Person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

SEE SIDE PANEL FOR PRECAUTIONARY STATEMENTS

SOLD BY:



LIVINGSTON
GROUP, INC.

4768 Hermitage Road
Virginia Beach, VA 23455 USA
Telephone: 757-460-3115
Facsimile: 757-460-0391

EPA REG. No. 47893-3
EPA EST. No. 069901-TX-01

NET CONTENTS

37 U.S. Pounds; 16.78 KG
(Unless Otherwise Marked Below)

_____ 4 Pounds

_____ 10 Pounds

_____ 9 Pounds

_____ 30 Pounds

If other, write in here _____

ACCEPTED
MAR 22 2005
Under the Federal Insecticides, Fungicides, and Rodenticides Act, as amended, for the pesticide registered under EPA Reg. No. 47893-3

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PRECAUTIONARY STATEMENT
Hazards to Humans and Domestic Animals

DANGER

Liquefied or pressurized gas can cause frost burns. Do not get in eyes or on skin. Harmful if inhaled. Avoid breathing vapors.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Wear long-sleeved shirt, long pants, boots, goggles, and chemical resistant gloves while handling cylinders or any application equipment under pressure. Do not enter unventilated treatment areas unless wearing a respirator approved by NIOSH/MSHA for this use. Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to inter-tidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-water or rinsate.

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.

IMPORTANT NOTICE

This container is to be returned to Livingston Group, Inc. or its designated agent for refilling when empty. Unauthorized filling of this container is prohibited by Federal Law.

GENERAL INFORMATION

Plants produce ethylene to induce chlorophyll degradation and ripening. The exposure of Avocados, Banana, Citrus Fruits (Grapefruit, Lemon, Orange, Tangerines), Mangoes, Melons, Honeydew Melons, Papayas, Peach, Pome Fruit (Pear), Persimmon, Pineapple, Tomato, Walnut (English/Black) and other Fruiting Vegetables to LIVINGSTON'S NATURE-RIPE™ ethylene will result in a faster and more uniform breakdown of chlorophyll than if not treated.

LIVINGSTON'S NATURE-RIPE™ is flammable in concentrations of 3.1 to 32 percent in air (31,000 to 320,000 parts per million).

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribe agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standards, 40 C.F.R. part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and the restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restrictive entry interval (REI) of 12 hours.

Exception: If the product is soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water are: coveralls, waterproof gloves, shoes plus socks, and protective eyewear.

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RIPENING APPLICATION

LIVINGSTON'S NATURE-RIPLE™ ethylene is to be applied to the air of rooms designed for the ripening of fruits and vegetables listed maintaining proper humidity (minimum of 85% relative humidity) and complete air exchange of at least 2 times per 24 hour period.

LIVINGSTON'S NATURE-RIPLE™ ethylene is used to ripen Avocados, Banana, Citrus Fruits (Grapefruit, Lemon, Orange, Tangerines), Mangoes, Melons, Honeydew Melons, Papayas, Peach, Pome Fruit (Pear), Persimmon, Pineapple, Tomato, Walnut (English/Black) and other Fruiting Vegetables at normal room temperature, 68°F - 70°F (20°C - 21°C). Exposure of LIVINGSTON'S NATURE-RIPLE™ ethylene is made until the desired coloring of the fruits and fruiting vegetables has occurred. Always use proper regulator firmly attached to cylinder to reduce the pressure of the gas in conjunction with a properly sized flow-meter and restricted orifice (fixed orifice) for each room to be treated to ensure proper flow not to exceed a rise of concentration of 42 parts per million per hour. Do not open cylinder valve without proper regulator attached firmly to the cylinder.

Do not allow tubing from cylinder to ripening room to pass through unventilated areas. Install flow-meter and restrictive orifice outside the ripening room in ventilated area to allow only the desired flow to enter the ripening room. Do not place cylinder inside ripening room.

To determine the amount of Livingston's Nature-Ripe™ ethylene required with air exchange: (1) calculate the cubic volume of the ripening room by multiplying the height X width X length, (2) calculate air exchange in cubic feet per minute by dividing room volume in cubic feet by total minutes required for 1 complete air exchange, (3) calculate ethylene flow rate in cubic feet per hour (CFH) using the CFM X desired ethylene concentration X 60.

Avocados, Banana, Citrus Fruits (Grapefruit, Lemon, Orange, Tangerines), Mangoes, Melons, Honeydew Melons, Papayas, Peach, Pome Fruit (Pear), Persimmon, Pineapple, Tomato, Walnut (English/Black) and other Fruiting Vegetables: Use ½ to 1 cubic feet of LIVINGSTON'S NATURE-RIPLE™ ethylene per 1,000 cubic feet of room volume (empty) for a concentration of approximately 500 to 1,000 parts per million (PPM) at the end of a continuous 24-hour treatment in an air-tight room. Air must be exchanged to flush the room of carbon dioxide emitted by fruits or vegetables during ripening as a result of the fruit or fruiting vegetables' respiration. Have at least one complete air exchange every 12 hours in ripening rooms – more frequent air exchange is desirable.

Citrus: Apply 0.12 to 0.48 cubic feet of Livingston's Nature-Ripe™ ethylene per 24 hours per 1,000 cubic feet of room volume (empty) with complete air exchange 1 to 2 times per hour (24 to 48 times per 24 hours) to maintain 5 to 10 PPM. Do not expose ARIZONA and CALIFORNIA CITRUS to more than 5 PPM; do not exceed 0.24 cubic feet of LIVINGSTON'S NATURE-RIPLE™ ethylene per 1,000 cubic feet of room volume (empty) per 24 hours with less than 2 air exchanges per hour (48 times per 24 hours).

Concentrations of LIVINGSTON'S NATURE-RIPLE™ ethylene and carbon dioxide in ripening rooms may be monitored by using GasTec or similar tubes in pumps or electronic digital devices.

PINEAPPLE (FLOWER INDUCEMENT)

Use 1 to 2.5 lb. LIVINGSTON'S NATURE-RIPLE™ ethylene applied in 500 to 1,600 gallons of water per acre. Use of China clay, activated carbon, or other suitable adsorbent in suspension in the water is preferred. Use sprayer at 15-20 psi to apply to plant foliage when the plant is mature. Retreat crop if plant characteristics (maturity, environmental and growing conditions) adversely affected the treatment's results.

ADDITIONAL INFORMATION

For additional information, contact local Agricultural Extension Office, Agricultural University or Livingston Group, Inc.

PESTICIDE STORAGE and DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Store cylinder and regulators in a safe and ventilated area, away from the weather, when not in use. CONTENTS UNDER PRESSURE. DO NOT MOVE OR STORE CYLINDER WITHOUT SAFETY CAP SECURELY IN PLACE. DO NOT STORE NEAR HEAT OR FLAME.
PESTICIDE DISPOSAL: Cylinder containing excess gas that cannot be held in proper storage for later use should be returned to the supplier.
CONTAINER DISPOSAL: Return empty cylinder for reuse.

WARRANTY

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