



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs (7501W)
 Biopesticides and Pollution Prevention Division
 401 "M" St., S.W.
 Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

11491-9

JUL 07 1995

NOTICE OF PESTICIDE:
 Registration
 Reregistration

Term of Issuance: Unconditional

Name of Pesticide Product:

Flavor Fresh Ethylene

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Liquid Carbonic
 Cylinder Gas Products Division
 810 Jorie Boulevard
 Oakbrook, IL 60521-2216

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.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5), provided that you:

1. Change the label by revising the EPA Registration Number to read "EPA Reg. No. 11491-9.
2. Enter the appropriate EPA Establishment Number before you release this product for shipment.
3. Submit five (5) copies of the revised final printed label for the record.
4. Since you have deleted the agricultural uses subject to the Worker Protection Standard (pineapple flowering and witchweed control) you are not required to include the "Environmental Hazards" statement, which begins "Do not apply directly to water....etc."

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

Janet L. Anderson

Date:

7/7/95

FLAVOR FRESH™ ETHYLENE

ACTIVE INGREDIENT:ETHYLENE 100%

ETHYLENE
COMPRESSED
UN 1962

[Flammable Gas]

**ACCEPTED
with COMMENTS
In EPA Letter Dated**

7/7/95

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

SPECIALTY GAS

KEEP OUT OF REACH OF CHILDREN
DANGER

PRECAUTIONARY STATEMENTS

DANGER: FLAMMABLE LIQUID AND GAS UNDER PRESSURE. CAN FORM EXPLOSIVE MIXTURES WITH AIR. MAY CAUSE FROSTBITE.

Hazards to Humans and Domestic Animals:

DANGER - Liquified or pressurized gas can cause frost burns. Do not get liquid 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.

Environmental Hazards:

Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

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 Fahrenheit may cause bursting.

STATEMENT OF PRACTICAL TREATMENT

- IF IN EYES - Flush with plenty of water. Call a physician.
- IF ON SKIN - Wash 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.

DRAFT LABEL: FLAVOR FRESH (tm)
CONTINUATION PANEL No. 1

DIRECTIONS FOR USE

It is a Violation of Federal Law to Use this Product
in a Manner Inconsistent with its Labeling

1. Use in accordance with tag attached to cylinder valve, and Material Safety Data Sheet for Ethylene. 2. Use only in equipment rated for cylinder pressure. 3. Close valve after each use and when empty.

STORAGE AND DISPOSAL

STORAGE: Do not use or store near sources of heat, open flames, or in direct sun. Cylinder storage temperatures must not exceed 125 degrees F.

1. Secure cylinders in an upright position during use and storage. 2. Close valve after each use and when empty. 3. Keep valve protector cap in place at all times that cylinder is not in use.

PESTICIDE DISPOSAL: Pesticide wastes are classified as toxic. Improper disposal of excess pesticide, spray mixtures, or rinseates is a violation of Federal law. If these wastes can not be disposed of by use according to the label directions, contact your State Pesticide or Environmental Control Agency, or the hazardous waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Return empty and outdated cylinders to Liquid Carbonic. This cylinder must not be re-charged except by or with the consent of Liquid Carbonic. Prior to return, check valve for leaks. If leaks are detected, contact supplier.

DOT/IMO Shipping Name: Compressed Gas, (Ethylene) UN 1962
CAS No.: 74-85-1

Net Contents: _____ lbs

DRAFT LABEL: FLAVOR FRESH (tm)
CONTINUATION PANEL No. 2

EPA Registration No. 11491-_____

Produced at EPA Establishment No. (as marked on label):

11491-CA-1

11491-CA-2

11491-FL-1

11491-IL-2

11491-LA-1

11491-PA-2

11491-TX-1

DO NOT REMOVE THIS LABEL

EMERGENCY RESPONSE PHONE NUMBER (504) 673 - 8831
CHEMTREC (800)4242-9300

LIQUID CARBONIC
Cylinder Gas Products
810 Jorie Boulevard

Oak Brook, IL 69521-2216

Made in U.S.A

LIQUID CARBONIC: ETHYLENE VOL.1

DRAFT LABEL: FLAVOR FRESH (tm)
CYLINDER TAG DRAFT, Page 1

DO NOT REMOVE THIS TAG

FLAVOR FRESH (tm)
ETHYLENE 100%
1200 PSI @ 70 F

DANGER! FLAMMABLE LIQUID AND GAS UNDER PRESSURE
MAY FORM EXPLOSIVE MIXTURES WITH AIR
MAY CAUSE FROSTBURNS
HARMFUL IF INHALED

This Cylinder Tag Contains Additional Information which
is Considered an Integral Part of the Label for this Product

DIRECTIONS FOR USE

It is a Violation of Federal Law to Use this Product
in a Manner Inconsistent with its Labeling

Ethylene is used commercially as a ripening agent for fruits and
vegetables and as a curing agent for tobacco.

Precautions for Handling and Storage

- Ethylene is an extremely flammable gas.
- Mixtures of Ethylene in air will burn or explode.
- Store cylinders in cool, dry, well ventilated areas, away from sources of heat and ignition. Do not allow temperature to exceed 125F. Store away from oxidizers such as Oxygen and Chlorine.
- Post "No Smoking or Open Flame" signs in storage and use areas.
- Secure cylinders in an upright position.
- Electrical equipment should be explosion-proof.
- Earth-ground and bond all lines and equipment.
- Use pressure reducing equipment when connecting cylinder to low pressure piping.

Application - Ripening/Degreening

Ripen fruits at a concentration of 0.1% Ethylene. Do not make allowance in calculation for space occupied by the fruit. Apply one cubic foot of Ethylene for every 1,000 cubic feet of room volume.

Use a flowmeter-regulator to deliver the proper amount of Ethylene to the room.

DRAFT LABEL: FLAVOR FRESH (tm)
CYLINDER TAG DRAFT, Page 2

In airtight rooms, explosion-proof U.L. listed fans may be used to distribute the Ethylene-Air mixture.

Ventilate rooms at least twice per day and reapply.

Fruit	% Ethylene	Temperature (F)	Relative Humidity	Exposure Time
Bananas	0.1%	65 - 70	90%	3 - 4 days
Grapefruits	0.1%	80 - 90	80%	2½ - 5 days
Honeydew Melons	0.1%	65 - 70	80%	3 - 4 days
Lemons	0.1%	70	80%	2½ - 5 days
Oranges	0.1%	80 - 90	90%	2½ - 5 days
Pears	0.1%	65 - 70	Unknown	4 - 8 days
Persimmons	0.1%	65 - 70	80%	2 days
Tangerines	0.1%	65 - 70	90%	2½ - 5 days
Tomatoes	0.02%	65 - 70	85%	6 days
Walnuts	0.1%	70 - 80	Dry	3 days

DOT/IMO Shipping Name: Compressed Gas, (Ethylene) UN 1962

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