

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS**

DANGER

Exposure to liquefied or pressurized gas can cause frost burns, anesthetic effects and rapid suffocation. Do not get in eyes or on skin. Wear long sleeve 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.

PHYSICAL OR CHEMICAL HAZARDS
EXTREMELY FLAMMABLE. Contents under pressure. Keep away from fire, sparks, and heated surfaces. Do not puncture or incinerate container. To avoid bursting, do not expose container to temperatures above 125° F (52°C). Use equipment rated for cylinder pressure. CAN FORM EXPLOSIVE MIXTURES WITH AIR.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Use only in accordance with this label and Air Products' MATERIAL SAFETY DATA SHEET. Close valve tightly and replace cylinder cap when not in use and when empty.

STORAGE AND DISPOSAL

STORAGE: Store in a cool, well ventilated area with valve closed and cylinder cap in place. Isolate cylinders from combustible or oxidizing materials. Outside or detached storage is preferred. Store cylinders in an upright position and firmly secured. In case of product leakage call the Air Products emergency number.

(800) 526-9374 Continental U.S.
(610) 481-7711 outside U.S.

PESTICIDE DISPOSAL: Do not contaminate water, food or feed by storage or disposal. With the valve closed and the cylinder cap in place, return all unused or residual product to the supplier for proper disposal.

CONTAINER DISPOSAL: Return empty cylinder to supplier for reuse.

**ETHYLENE,
COMPRESSED**

UN 1962



CAS No. 74-85-1

C₂H₄

PLANT GROWTH REGULATOR

ETHYLENE	98.5%
INERT INGREDIENTS	1.5%
TOTAL	100.0%

THIS CYLINDER CONTAINS

(CIRCLE ONE) 0.3, 3.0, 4.5, 11, 30, 34, LBS.

OF PRODUCT

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

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 for further treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for further treatment advice.

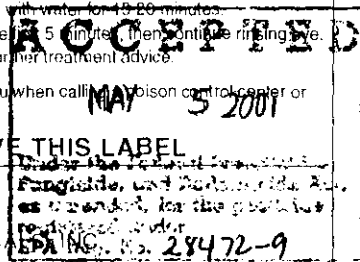
IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for further treatment advice.

"Have the product container or label with you when calling a poison control center or doctor, or going for treatment."

DO NOT REMOVE THIS LABEL

EPA REG. NO. 28472-9
EPA EST. NO. 28472-FL-001
AIR PRODUCTS AND CHEMICAL
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**ETHYLENE FOR RIPENING AND
DEGREENING**

The produce for which ethylene has been used as a ripening or degreening agent are listed below along with the optimum concentrations of ethylene required.

PRODUCE	CONCENTRATION OF ETHYLENE (PPM)
Banana	100-150
Citrus Fruit (Orange, Grapefruit)	1-10
Honeydew Melon	100-150
Avocado	10-100
Pear	10-100
Kiwi Fruit	10-100
Mango	100-150
Stone Fruit (Nectarine, Peach, Plum)	10-100
Tomato	100-150

Ethylene for fruit ripening is best used in commercially available ripening rooms. These rooms are usually gas tight, have systems for controlling humidity and concentrations of ethylene and carbon dioxide, and have equipment to control product temperature. The optimum temperature and duration of treatment vary slightly for each produce but are generally between 65 to 80° F and 24 to 48 hours. In addition, maintain the relative humidity between 85 and 95%.

The following formula is an example of how to determine the volume of gas required for a particular ripening room:

$$\frac{\text{Size of room in cubic feet} \times \text{Desired ppm}}{1,000,000} = \text{cubic feet of gas required.}$$

A room having a volume of 1,000 cubic feet where a concentration of 100 ppm is desired would require 0.1 cubic foot of ethylene.

Measure by volume the amount of gas discharged from the cylinder by using a flow meter to measure the flow rate (in cubic feet/hour).

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