

69180-1

6/24/2011

Page 184

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

JUN 24 2011
OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

Catherine M. Byrd
Agent for Airgas Specialty Gases, Inc.
Wagner Regulatory Associates, Inc.
P.O. Box 640
7460 Lancaster Pike, Suite 9
Hockessin, DE 19707

Subject: Ethylene (EPA Reg. No 69180-1)
PRIA B680 Label Amendment
Application Dated: April 14, 2011
Decision Number: 447678

Dear Ms. Byrd:

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(5), is acceptable provided that you:

1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit three (3) copies of your final printed labeling before you release the product for shipment. Final printed labeling means the label or labeling of the product when distributed or sold. Clearly legible reproductions or photo reductions will be accepted for unusual labels, such as those silk-screened directly onto glass or metal containers or large bags or drum labels.

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

If you have any questions contact John Fournier at 703-308-0169 or by email at: fournier.john@epa.gov. A stamped copy of the label is enclosed for your records.

Sincerely,

Linda A. Hollis, Chief
Biochemical Pesticides Branch
Biopesticides and Pollution

Prevention Division (7511P)

SYMBOL	Enclosure	7511P	7511P				
SURNAME		Fournier	COLE				
DATE		15 Jun 11	6/23/11				

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ETHYLENE

ACCEPTED

UN1962

CAS No. 74-85-1

JUN 24 2011

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 69180-1



C₂H₄

PLANT GROWTH REGULATOR

ETHYLENE

98.5%

OTHER 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 first 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.

EPA REG NO. 69180-1

EPA EST. NO. 69180-TX-001

AIRGAS SPECIALTY GASES, INC.

RADNOR, PA 19067-5283

www.airgas.com

DO NOT REMOVE THIS LABEL

**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 Airgas' MATERIAL SAFETY DATA SHEET. Close valve tightly and replace cylinder cap when not in use and when empty.

ETHYLENE FOR RIPENING & DEGREENING

The produce for which ethylene can be 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 treatment vary slightly for each produce but are generally between

65 and 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).

ETHYLENE FOR SPROUT INHIBITION AND SUPPRESSION IN POTATOES

For optimum sprout inhibition and suppression in potatoes, use 0.1 to 10 ppm of ethylene with a flow rate ranging from 200 to 600 mL/min depending on the size of the storage facility. Ethylene for sprout inhibition and suppression in potatoes is best used with commercially available ethylene management devices.

Ensure potato storage is adequately ventilated to prevent carbon dioxide accumulation. Refer to the equipment manufacturer's treatment guidelines for additional information.

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 Airgas emergency number.

(800) 949-7937

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 products to the supplier for proper disposal.

CONTAINER DISPOSAL: Return empty cylinder to supplier for reuse.